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FINAL REPORT, Contract No. F19628-72-C-0052

## CLIMATOLOGY OF INSTANTANEOUS PRECIPITATION RATES

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Urbana, Illinois 61801

### Errata

Prepared  
For  
AIR FORCE CAMBRIDGE RESEARCH LABORATORIES  
AIR FORCE SYSTEMS COMMAND  
UNITED STATE AIR FORCE  
BEDFORD, MASSACHUSETTS 01730



Page

Correction to be made

10	Replace page (Fig. 2).
11	Remove the portion of the first paragraph beginning with "In plotting these ..." through the end of the paragraph.
12	Replace page (Fig. 3).
39-44	Replace pages (Tables 21-26).
46-51	Replace pages (Tables 28-33).
54-56	Replace pages (Tables 36-38).
57	Change "8.8-mile" to read "8.6-mile".
58	Change "14.9-mile" to read "14.8-mile".
59	Change "21.1-mile" to read "21.3-mile".
60	Change "26.8-mile" to read "26.9-mile".
61	Change "32.5-mile" to read "32.2-mile".
63-65	Replace pages (Tables 45-47).
66	Change "21.0-mile" to read "21.2-mile".
67	Replace page (Table 49).
68	Change "33.2-mile" to read "33.3-mile".
70-71	Replace pages (Tables 52-53).



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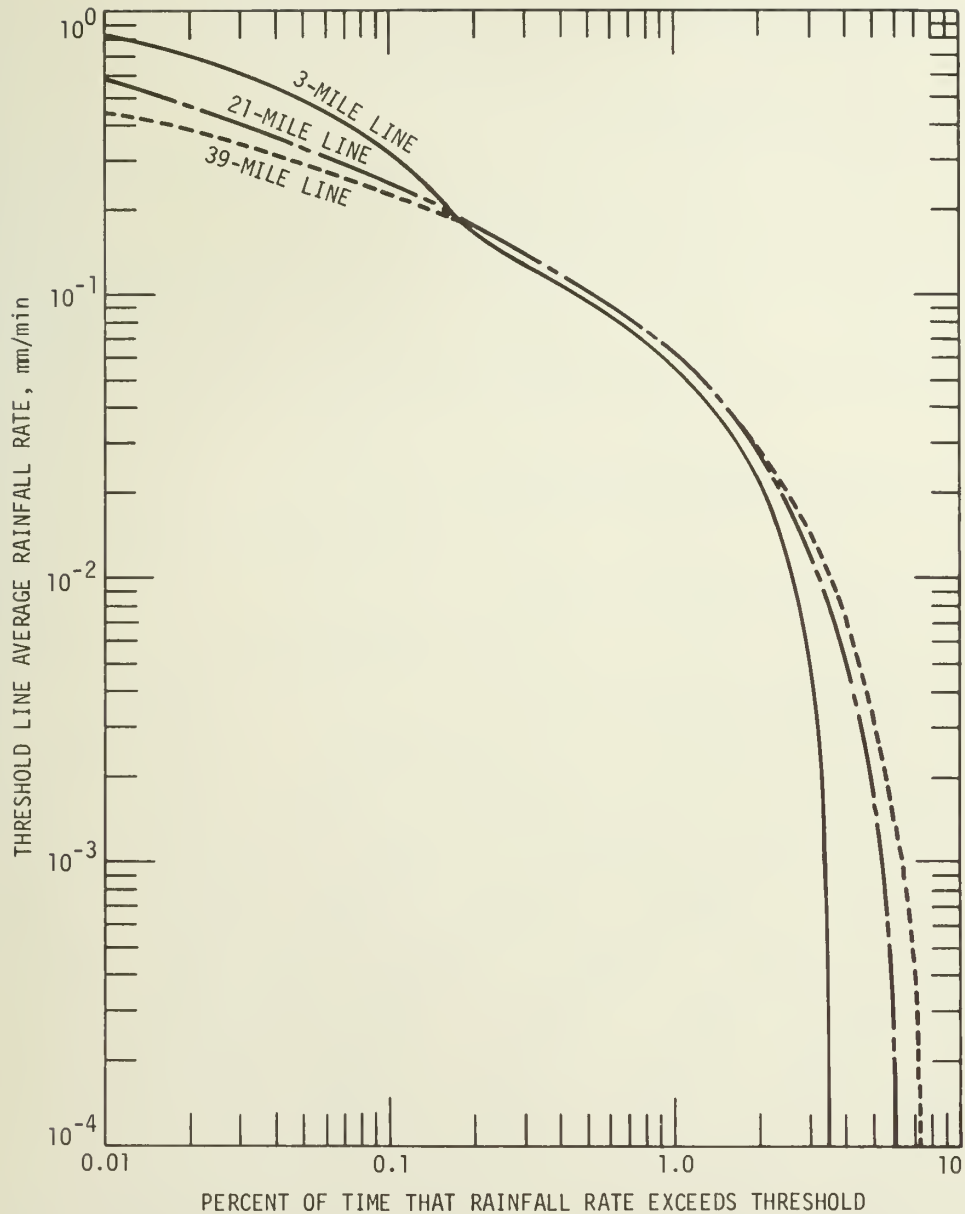


Figure 2. Cumulative frequency distributions of average rainfall rates for 3-mile, 21-mile, and 39-mile north-south lines in Central Illinois (data from Table 36 in the Appendix).





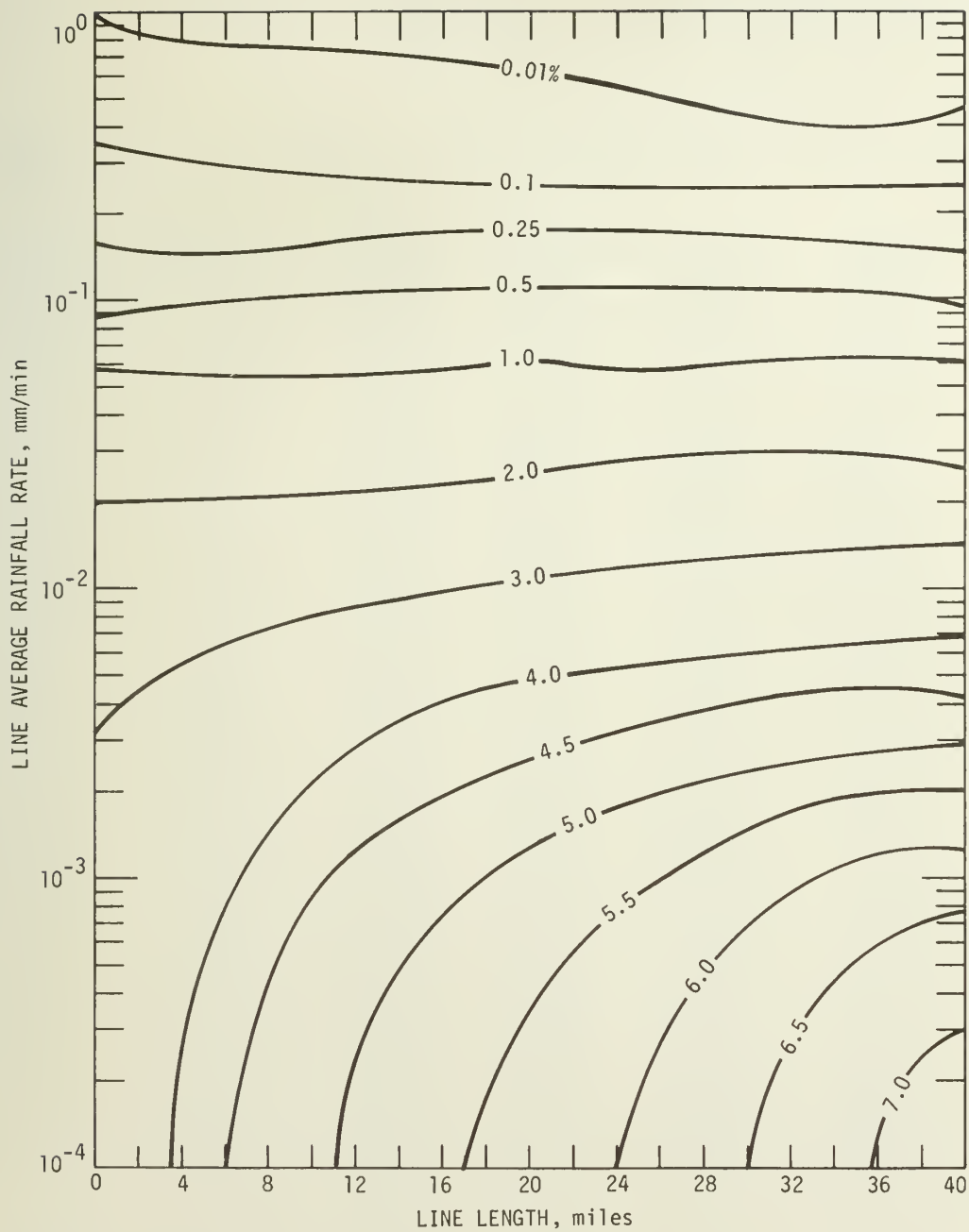


Figure 3. Percent of time that line average rates are exceeded as a function of line length for north-south lines in Central Illinois (derived from the data of Table 36 in the Appendix).



TABLE 21. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 2-GAGE  
(3.1-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970.

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.26E+00	2.04E-03	0.00E+00	8.96E-03	0.00E+00	0.00E+00	0.00E+00
1.00E+00	4.07E-03	0.00E+00	1.34E-02	0.00E+00	4.48E-03	0.00E+00
7.94E-01	1.22E-02	0.00E+00	1.34E-02	0.00E+00	3.58E-02	8.68E-03
6.31E-01	2.75E-02	0.00E+00	2.69E-02	4.63E-03	7.62E-02	2.60E-02
5.01E-01	4.68E-02	0.00E+00	4.93E-02	2.31E-02	1.16E-01	3.47E-02
3.98E-01	7.13E-02	1.47E-02	7.62E-02	3.70E-02	1.61E-01	5.21E-02
3.16E-01	9.88E-02	1.95E-02	1.08E-01	5.09E-02	2.28E-01	6.08E-02
2.51E-01	1.35E-01	4.40E-02	1.61E-01	5.56E-02	2.96E-01	8.68E-02
1.99E-01	1.70E-01	9.29E-02	1.84E-01	6.94E-02	3.54E-01	1.13E-01
1.58E-01	2.09E-01	1.66E-01	2.11E-01	7.41E-02	3.81E-01	2.00E-01
1.26E-01	3.17E-01	4.35E-01	2.51E-01	1.39E-01	4.39E-01	3.30E-01
1.00E-01	4.76E-01	8.21E-01	3.41E-01	2.08E-01	4.88E-01	6.08E-01
7.94E-02	6.73E-01	1.22E+00	4.88E-01	3.75E-01	5.42E-01	8.68E-01
6.31E-02	8.88E-01	1.62E+00	6.32E-01	6.25E-01	6.41E-01	1.06E+00
5.01E-02	1.13E+00	2.02E+00	9.18E-01	8.01E-01	7.08E-01	1.35E+00
3.98E-02	1.36E+00	2.46E+00	1.07E+00	1.06E+00	7.80E-01	1.61E+00
3.16E-02	1.61E+00	3.01E+00	1.22E+00	1.30E+00	8.74E-01	1.85E+00
2.51E-02	1.85E+00	3.41E+00	1.32E+00	1.57E+00	1.01E+00	2.28E+00
1.99E-02	2.05E+00	3.76E+00	1.44E+00	1.79E+00	1.08E+00	2.53E+00
1.58E-02	2.29E+00	4.17E+00	1.52E+00	2.16E+00	1.23E+00	2.76E+00
1.26E-02	2.51E+00	4.54E+00	1.66E+00	2.43E+00	1.37E+00	2.93E+00
1.00E-02	2.70E+00	4.87E+00	1.75E+00	2.69E+00	1.48E+00	3.06E+00
7.94E-03	2.83E+00	5.06E+00	1.85E+00	2.87E+00	1.54E+00	3.19E+00
6.31E-03	2.95E+00	5.38E+00	1.91E+00	3.01E+00	1.57E+00	3.23E+00
5.01E-03	3.03E+00	5.63E+00	1.93E+00	3.04E+00	1.59E+00	3.28E+00
3.98E-03	3.11E+00	5.78E+00	1.95E+00	3.11E+00	1.66E+00	3.40E+00
3.16E-03	3.17E+00	5.94E+00	1.96E+00	3.18E+00	1.69E+00	3.45E+00
2.51E-03	3.24E+00	6.13E+00	2.01E+00	3.19E+00	1.74E+00	3.48E+00
2.00E-03	3.30E+00	6.32E+00	2.03E+00	3.25E+00	1.76E+00	3.51E+00
1.58E-03	3.36E+00	6.51E+00	2.03E+00	3.27E+00	1.80E+00	3.55E+00
1.26E-03	3.40E+00	6.67E+00	2.04E+00	3.27E+00	1.81E+00	3.56E+00
1.00E-03	3.43E+00	6.78E+00	2.05E+00	3.27E+00	1.81E+00	3.56E+00
7.94E-04	3.43E+00	6.80E+00	2.06E+00	3.27E+00	1.82E+00	3.56E+00
6.31E-04	3.45E+00	6.88E+00	2.06E+00	3.28E+00	1.82E+00	3.56E+00
5.01E-04	3.46E+00	6.88E+00	2.06E+00	3.33E+00	1.82E+00	3.56E+00
3.98E-04	3.47E+00	6.88E+00	2.07E+00	3.33E+00	1.82E+00	3.57E+00
3.16E-04	3.47E+00	6.88E+00	2.07E+00	3.33E+00	1.82E+00	3.57E+00
2.51E-04	3.49E+00	6.95E+00	2.07E+00	3.34E+00	1.82E+00	3.57E+00
2.00E-04	3.49E+00	6.95E+00	2.07E+00	3.35E+00	1.82E+00	3.57E+00
1.58E-04	3.49E+00	6.95E+00	2.07E+00	3.35E+00	1.82E+00	3.57E+00
1.26E-04	3.49E+00	6.95E+00	2.07E+00	3.35E+00	1.82E+00	3.57E+00
1.00E-04	3.50E+00	6.96E+00	2.07E+00	3.35E+00	1.88E+00	3.57E+00
OPERATION TIME (MIN)	196444	40924	44640	43200	44640	23040

-CORRECTED SEPTEMBER 1973



TABLE 22. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 4-GAGE  
(8.6-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.26E+00	2.02E-03	0.00E+00	4.48E-03	0.00E+00	4.48E-03	0.00E+00
1.00E+00	4.04E-03	0.00E+00	1.34E-02	0.00E+00	4.48E-03	0.00E+00
7.94E-01	9.08E-03	0.00E+00	1.34E-02	0.00E+00	2.69E-02	0.00E+00
6.31E-01	1.41E-02	0.00E+00	2.24E-02	0.00E+00	3.58E-02	8.68E-03
5.01E-01	3.13E-02	0.00E+00	4.48E-02	0.00E+00	7.62E-02	3.47E-02
3.98E-01	5.85E-02	1.40E-02	6.27E-02	3.24E-02	1.30E-01	4.34E-02
3.16E-01	8.37E-02	2.34E-02	9.86E-02	4.17E-02	1.79E-01	6.08E-02
2.51E-01	1.24E-01	4.68E-02	1.21E-01	8.80E-02	2.64E-01	6.94E-02
1.99E-01	1.66E-01	7.96E-02	1.75E-01	9.72E-02	3.49E-01	8.68E-02
1.58E-01	2.25E-01	1.59E-01	2.11E-01	1.48E-01	4.12E-01	1.56E-01
1.26E-01	3.16E-01	3.70E-01	2.64E-01	1.62E-01	4.97E-01	2.52E-01
1.00E-01	4.85E-01	7.58E-01	3.18E-01	2.73E-01	5.65E-01	5.47E-01
7.94E-02	6.96E-01	1.18E+00	4.97E-01	4.17E-01	6.45E-01	7.99E-01
6.31E-02	9.10E-01	1.47E+00	6.59E-01	6.90E-01	7.71E-01	1.03E+00
5.01E-02	1.14E+00	1.86E+00	9.23E-01	8.43E-01	9.01E-01	1.26E+00
3.98E-02	1.40E+00	2.34E+00	1.14E+00	1.04E+00	1.04E+00	1.50E+00
3.16E-02	1.64E+00	2.69E+00	1.31E+00	1.32E+00	1.16E+00	1.83E+00
2.51E-02	1.88E+00	3.08E+00	1.42E+00	1.62E+00	1.31E+00	2.19E+00
1.99E-02	2.15E+00	3.50E+00	1.54E+00	1.98E+00	1.47E+00	2.46E+00
1.58E-02	2.38E+00	3.93E+00	1.70E+00	2.19E+00	1.59E+00	2.73E+00
1.26E-02	2.60E+00	4.25E+00	1.85E+00	2.50E+00	1.73E+00	2.90E+00
1.00E-02	2.81E+00	4.49E+00	2.02E+00	2.80E+00	1.90E+00	3.01E+00
7.94E-03	3.02E+00	4.78E+00	2.20E+00	2.98E+00	2.07E+00	3.26E+00
6.31E-03	3.22E+00	5.06E+00	2.35E+00	3.22E+00	2.20E+00	3.48E+00
5.01E-03	3.38E+00	5.28E+00	2.50E+00	3.44E+00	2.28E+00	3.60E+00
3.98E-03	3.55E+00	5.61E+00	2.64E+00	3.65E+00	2.34E+00	3.63E+00
3.16E-03	3.69E+00	5.81E+00	2.74E+00	3.80E+00	2.42E+00	3.84E+00
2.51E-03	3.81E+00	6.02E+00	2.80E+00	3.97E+00	2.50E+00	3.93E+00
2.00E-03	3.90E+00	6.13E+00	2.88E+00	4.04E+00	2.59E+00	4.00E+00
1.58E-03	4.05E+00	6.49E+00	2.97E+00	4.17E+00	2.68E+00	4.03E+00
1.26E-03	4.14E+00	6.76E+00	3.02E+00	4.20E+00	2.73E+00	4.07E+00
1.00E-03	4.18E+00	6.83E+00	3.03E+00	4.25E+00	2.78E+00	4.09E+00
7.94E-04	4.29E+00	7.02E+00	3.04E+00	4.50E+00	2.85E+00	4.09E+00
6.31E-04	4.36E+00	7.17E+00	3.05E+00	4.61E+00	2.86E+00	4.11E+00
5.01E-04	4.40E+00	7.19E+00	3.11E+00	4.64E+00	2.93E+00	4.11E+00
3.98E-04	4.52E+00	7.32E+00	3.12E+00	5.01E+00	2.96E+00	4.14E+00
3.16E-04	4.54E+00	7.43E+00	3.12E+00	5.01E+00	2.96E+00	4.14E+00
2.51E-04	4.55E+00	7.46E+00	3.13E+00	5.02E+00	2.96E+00	4.14E+00
2.00E-04	4.58E+00	7.54E+00	3.14E+00	5.04E+00	2.96E+00	4.15E+00
1.58E-04	4.59E+00	7.57E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
1.26E-04	4.59E+00	7.57E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
1.00E-04	4.59E+00	7.57E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
7.94E-05	4.59E+00	7.57E+00	3.15E+00	5.04E+00	2.98E+00	4.15E+00
6.31E-05	4.60E+00	7.58E+00	3.15E+00	5.04E+00	3.01E+00	4.15E+00
5.01E-05	4.60E+00	7.58E+00	3.15E+00	5.04E+00	3.01E+00	4.15E+00
3.98E-05	4.60E+00	7.59E+00	3.15E+00	5.04E+00	3.01E+00	4.15E+00
3.16E-05	4.61E+00	7.60E+00	3.15E+00	5.04E+00	3.01E+00	4.15E+00

OPERATION TIME (MIN)	198244	42724	44640	43200	44640	23040
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TABLE 23. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 6-GAGE  
(14.8-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.26E+00	2.03E-03	0.00E+00	4.48E-03	0.00E+00	4.48E-03	0.00E+00
1.00E+00	4.05E-03	0.00E+00	1.34E-02	0.00E+00	4.48E-03	0.00E+00
7.94E-01	8.10E-03	0.00E+00	1.34E-02	0.00E+00	2.24E-02	0.00E+00
6.31E-01	1.22E-02	0.00E+00	2.24E-02	0.00E+00	3.14E-02	0.00E+00
5.01E-01	2.03E-02	0.00E+00	3.58E-02	0.00E+00	5.38E-02	0.00E+00
3.98E-01	3.44E-02	0.00E+00	3.58E-02	4.63E-03	9.41E-02	3.47E-02
3.16E-01	7.49E-02	2.38E-02	8.51E-02	4.17E-02	1.66E-01	3.47E-02
2.51E-01	1.27E-01	3.34E-02	1.21E-01	1.02E-01	2.73E-01	6.94E-02
1.99E-01	1.72E-01	5.24E-02	1.61E-01	1.48E-01	3.67E-01	7.81E-02
1.58E-01	2.19E-01	1.00E-01	2.02E-01	1.76E-01	4.48E-01	1.04E-01
1.26E-01	3.29E-01	3.57E-01	2.73E-01	2.13E-01	5.56E-01	1.65E-01
1.00E-01	4.88E-01	7.34E-01	3.58E-01	2.87E-01	6.59E-01	3.39E-01
7.94E-02	7.08E-01	1.17E+00	5.24E-01	4.07E-01	7.71E-01	6.60E-01
6.31E-02	9.18E-01	1.48E+00	7.08E-01	6.02E-01	8.78E-01	9.64E-01
5.01E-02	1.15E+00	1.74E+00	9.77E-01	8.01E-01	1.05E+00	1.23E+00
3.98E-02	1.41E+00	2.16E+00	1.20E+00	9.91E-01	1.25E+00	1.55E+00
3.16E-02	1.63E+00	2.56E+00	1.37E+00	1.19E+00	1.41E+00	1.71E+00
2.51E-02	1.94E+00	2.95E+00	1.58E+00	1.59E+00	1.60E+00	2.10E+00
1.99E-02	2.22E+00	3.30E+00	1.74E+00	1.96E+00	1.80E+00	2.48E+00
1.58E-02	2.50E+00	3.71E+00	1.96E+00	2.33E+00	1.93E+00	2.77E+00
1.26E-02	2.74E+00	4.04E+00	2.21E+00	2.67E+00	2.04E+00	2.92E+00
1.00E-02	2.97E+00	4.26E+00	2.44E+00	2.96E+00	2.23E+00	3.10E+00
7.94E-03	3.20E+00	4.53E+00	2.62E+00	3.26E+00	2.39E+00	3.37E+00
6.31E-03	3.45E+00	4.78E+00	2.87E+00	3.69E+00	2.49E+00	3.57E+00
5.01E-03	3.68E+00	5.06E+00	3.15E+00	3.99E+00	2.63E+00	3.67E+00
3.98E-03	3.88E+00	5.35E+00	3.32E+00	4.22E+00	2.79E+00	3.81E+00
3.16E-03	4.05E+00	5.52E+00	3.49E+00	4.48E+00	2.91E+00	3.89E+00
2.51E-03	4.23E+00	5.85E+00	3.62E+00	4.65E+00	3.00E+00	4.02E+00
2.00E-03	4.35E+00	6.06E+00	3.70E+00	4.84E+00	3.02E+00	4.13E+00
1.58E-03	4.48E+00	6.36E+00	3.80E+00	4.90E+00	3.11E+00	4.23E+00
1.26E-03	4.59E+00	6.53E+00	3.86E+00	5.12E+00	3.16E+00	4.24E+00
1.00E-03	4.71E+00	6.76E+00	3.88E+00	5.35E+00	3.25E+00	4.26E+00
7.94E-04	4.80E+00	6.95E+00	3.89E+00	5.50E+00	3.28E+00	4.30E+00
6.31E-04	4.89E+00	7.08E+00	3.99E+00	5.57E+00	3.37E+00	4.30E+00
5.01E-04	5.02E+00	7.35E+00	3.99E+00	5.89E+00	3.39E+00	4.31E+00
3.98E-04	5.08E+00	7.58E+00	4.00E+00	5.91E+00	3.40E+00	4.31E+00
3.16E-04	5.10E+00	7.68E+00	4.01E+00	5.92E+00	3.41E+00	4.31E+00
2.51E-04	5.14E+00	7.83E+00	4.01E+00	5.92E+00	3.41E+00	4.31E+00
2.00E-04	5.19E+00	8.01E+00	4.04E+00	5.95E+00	3.42E+00	4.31E+00
1.58E-04	5.20E+00	8.03E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
1.26E-04	5.22E+00	8.10E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
1.00E-04	5.23E+00	8.15E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
7.94E-05	5.23E+00	8.17E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
6.31E-05	5.23E+00	8.18E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
5.01E-05	5.23E+00	8.18E+00	4.04E+00	5.97E+00	3.42E+00	4.31E+00
3.98E-05	5.25E+00	8.18E+00	4.04E+00	6.03E+00	3.43E+00	4.31E+00
3.16E-05	5.25E+00	8.18E+00	4.04E+00	6.03E+00	3.43E+00	4.31E+00
2.51E-05	5.25E+00	8.18E+00	4.04E+00	6.03E+00	3.43E+00	4.31E+00
2.00E-05	5.25E+00	8.21E+00	4.05E+00	6.03E+00	3.43E+00	4.31E+00

OPERATION	197492	41972	44640	43200	44640	23040
TIME (MIN)						

-CORRECTED SEPTEMBER 1973





TABLE 24. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 8-GAGE  
(21.3-MILF) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.00E+00	2.03E-03	0.00E+00	4.48E-03	0.00E+00	4.48E-03	0.00E+00
7.94E-01	5.07E-03	0.00E+00	1.34E-02	0.00E+00	8.96E-03	0.00E+00
6.31E-01	8.11E-03	0.00E+00	1.34E-02	0.00E+00	2.24E-02	0.00E+00
5.01E-01	1.42E-02	0.00E+00	2.24E-02	0.00E+00	4.03E-02	0.00E+00
3.98E-01	3.14E-02	1.44E-02	4.48E-02	4.63E-03	6.72E-02	1.74E-02
3.16E-01	5.98E-02	1.44E-02	6.27E-02	2.31E-02	1.48E-01	3.47E-02
2.51E-01	1.10E-01	2.87E-02	1.08E-01	6.94E-02	2.60E-01	5.21E-02
1.99E-01	1.73E-01	5.27E-02	1.61E-01	1.39E-01	3.81E-01	7.81E-02
1.58E-01	2.21E-01	1.10E-01	1.97E-01	1.81E-01	4.48E-01	1.04E-01
1.26E-01	3.53E-01	3.97E-01	2.82E-01	2.64E-01	5.73E-01	1.48E-01
1.00E-01	5.20E-01	7.85E-01	3.72E-01	3.43E-01	7.03E-01	3.04E-01
7.94E-02	7.55E-01	1.21E+00	5.60E-01	4.95E-01	8.74E-01	5.73E-01
6.31E-02	9.91E-01	1.53E+00	7.44E-01	7.08E-01	1.01E+00	9.90E-01
5.01E-02	1.21E+00	1.83E+00	9.77E-01	8.43E-01	1.21E+00	1.25E+00
3.98E-02	1.50E+00	2.26E+00	1.26E+00	1.07E+00	1.37E+00	1.60E+00
3.16E-02	1.77E+00	2.62E+00	1.52E+00	1.36E+00	1.54E+00	1.92E+00
2.51E-02	2.08E+00	3.05E+00	1.76E+00	1.75E+00	1.74E+00	2.26E+00
1.99E-02	2.40E+00	3.52E+00	2.01E+00	2.14E+00	1.89E+00	2.56E+00
1.58E-02	2.67E+00	3.87E+00	2.25E+00	2.45E+00	2.10E+00	2.77E+00
1.26E-02	2.92E+00	4.13E+00	2.56E+00	2.85E+00	2.22E+00	2.93E+00
1.00E-02	3.22E+00	4.41E+00	2.81E+00	3.36E+00	2.40E+00	3.15E+00
7.94E-03	3.44E+00	4.74E+00	3.00E+00	3.62E+00	2.53E+00	3.40E+00
6.31E-03	3.65E+00	5.02E+00	3.21E+00	3.82E+00	2.64E+00	3.62E+00
5.01E-03	3.89E+00	5.22E+00	3.46E+00	4.23E+00	2.75E+00	3.85E+00
3.98E-03	4.12E+00	5.51E+00	3.65E+00	4.62E+00	2.84E+00	4.03E+00
3.16E-03	4.34E+00	5.80E+00	3.88E+00	4.84E+00	3.02E+00	4.18E+00
2.51E-03	4.54E+00	6.16E+00	4.05E+00	5.06E+00	3.08E+00	4.40E+00
2.00E-03	4.72E+00	6.45E+00	4.19E+00	5.24E+00	3.26E+00	4.50E+00
1.58E-03	4.90E+00	6.93E+00	4.26E+00	5.44E+00	3.30E+00	4.53E+00
1.26E-03	5.06E+00	7.21E+00	4.34E+00	5.66E+00	3.41E+00	4.61E+00
1.00E-03	5.15E+00	7.44E+00	4.36E+00	5.78E+00	3.43E+00	4.69E+00
7.94E-04	5.25E+00	7.69E+00	4.39E+00	5.92E+00	3.46E+00	4.73E+00
6.31E-04	5.33E+00	7.90E+00	4.40E+00	5.97E+00	3.53E+00	4.74E+00
5.01E-04	5.45E+00	8.19E+00	4.40E+00	6.13E+00	3.63E+00	4.77E+00
3.98E-04	5.50E+00	8.25E+00	4.47E+00	6.20E+00	3.65E+00	4.77E+00
3.16E-04	5.60E+00	8.47E+00	4.48E+00	6.43E+00	3.66E+00	4.77E+00
2.51E-04	5.68E+00	8.76E+00	4.49E+00	6.48E+00	3.66E+00	4.77E+00
2.00E-04	5.72E+00	8.92E+00	4.50E+00	6.49E+00	3.68E+00	4.77E+00
1.58E-04	5.77E+00	9.06E+00	4.53E+00	6.52E+00	3.69E+00	4.78E+00
1.26E-04	5.77E+00	9.07E+00	4.53E+00	6.54E+00	3.69E+00	4.78E+00
1.00E-04	5.77E+00	9.08E+00	4.53E+00	6.54E+00	3.69E+00	4.78E+00
7.94E-05	5.79E+00	9.15E+00	4.53E+00	6.54E+00	3.69E+00	4.78E+00
6.31E-05	5.79E+00	9.15E+00	4.53E+00	6.54E+00	3.69E+00	4.78E+00
5.01E-05	5.81E+00	9.15E+00	4.53E+00	6.60E+00	3.71E+00	4.78E+00
3.98E-05	5.81E+00	9.15E+00	4.53E+00	6.60E+00	3.71E+00	4.79E+00
3.16E-05	5.81E+00	9.15E+00	4.53E+00	6.60E+00	3.71E+00	4.79E+00
2.51E-05	5.82E+00	9.18E+00	4.54E+00	6.61E+00	3.71E+00	4.79E+00
2.00E-05	5.82E+00	9.18E+00	4.54E+00	6.61E+00	3.71E+00	4.79E+00
1.58E-05	5.82E+00	9.19E+00	4.54E+00	6.61E+00	3.71E+00	4.79E+00

OPERATION	197292	41772	44640	43200	44640	23040
TIME (MIN)						



TABLE 25. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 10-GAGE (26.9-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
7.94E-01	3.04E-03	0.00E+00	8.96E-03	0.00E+00	4.48E-03	0.00E+00
6.31E-01	6.08E-03	0.00E+00	1.34E-02	0.00E+00	1.34E-02	0.00E+00
5.01E-01	1.22E-02	0.00E+00	2.24E-02	0.00E+00	3.14E-02	0.00E+00
3.98E-01	2.43E-02	1.44E-02	3.58E-02	4.63E-03	5.38E-02	0.00E+00
3.16E-01	5.37E-02	1.44E-02	5.38E-02	1.85E-02	1.39E-01	2.60E-02
2.51E-01	9.23E-02	2.39E-02	8.06E-02	5.56E-02	2.24E-01	5.21E-02
1.99E-01	1.65E-01	5.27E-02	1.52E-01	1.62E-01	3.32E-01	7.81E-02
1.58E-01	2.41E-01	1.05E-01	1.88E-01	2.78E-01	4.61E-01	9.55E-02
1.26E-01	3.56E-01	3.78E-01	2.64E-01	3.19E-01	5.69E-01	1.48E-01
1.00E-01	5.35E-01	8.00E-01	3.81E-01	3.98E-01	6.99E-01	2.95E-01
7.94E-02	7.50E-01	1.15E+00	5.69E-01	5.37E-01	8.78E-01	5.21E-01
6.31E-02	1.00E+00	1.58E+00	7.71E-01	7.45E-01	1.02E+00	8.33E-01
5.01E-02	1.26E+00	1.88E+00	9.86E-01	9.49E-01	1.22E+00	1.31E+00
3.98E-02	1.54E+00	2.30E+00	1.24E+00	1.18E+00	1.42E+00	1.70E+00
3.16E-02	1.83E+00	2.71E+00	1.54E+00	1.44E+00	1.59E+00	1.99E+00
2.51E-02	2.17E+00	3.09E+00	1.89E+00	1.82E+00	1.81E+00	2.36E+00
1.99E-02	2.46E+00	3.53E+00	2.08E+00	2.22E+00	2.00E+00	2.60E+00
1.58E-02	2.77E+00	3.87E+00	2.35E+00	2.66E+00	2.24E+00	2.83E+00
1.26E-02	3.04E+00	4.22E+00	2.64E+00	3.00E+00	2.38E+00	3.02E+00
1.00E-02	3.30E+00	4.50E+00	2.93E+00	3.36E+00	2.54E+00	3.25E+00
7.94E-03	3.56E+00	4.74E+00	3.21E+00	3.72E+00	2.67E+00	3.48E+00
6.31E-03	3.82E+00	5.11E+00	3.41E+00	4.05E+00	2.86E+00	3.72E+00
5.01E-03	4.06E+00	5.43E+00	3.61E+00	4.33E+00	2.98E+00	4.06E+00
3.98E-03	4.30E+00	5.78E+00	3.80E+00	4.63E+00	3.11E+00	4.24E+00
3.16E-03	4.55E+00	6.13E+00	4.04E+00	4.95E+00	3.25E+00	4.44E+00
2.51E-03	4.80E+00	6.51E+00	4.21E+00	5.20E+00	3.47E+00	4.70E+00
2.00E-03	5.00E+00	6.87E+00	4.35E+00	5.44E+00	3.57E+00	4.84E+00
1.58E-03	5.19E+00	7.14E+00	4.49E+00	5.69E+00	3.70E+00	4.97E+00
1.26E-03	5.34E+00	7.48E+00	4.57E+00	5.91E+00	3.72E+00	5.03E+00
1.00E-03	5.48E+00	7.82E+00	4.65E+00	5.97E+00	3.82E+00	5.13E+00
7.94E-04	5.57E+00	8.02E+00	4.70E+00	6.09E+00	3.85E+00	5.22E+00
6.31E-04	5.66E+00	8.16E+00	4.72E+00	6.21E+00	3.88E+00	5.33E+00
5.01E-04	5.80E+00	8.59E+00	4.80E+00	6.29E+00	3.97E+00	5.34E+00
3.98E-04	5.93E+00	8.85E+00	4.85E+00	6.47E+00	4.05E+00	5.37E+00
3.16E-04	6.01E+00	9.07E+00	4.91E+00	6.50E+00	4.09E+00	5.39E+00
2.51E-04	6.12E+00	9.28E+00	4.91E+00	6.74E+00	4.12E+00	5.40E+00
2.00E-04	6.15E+00	9.39E+00	4.93E+00	6.76E+00	4.14E+00	5.41E+00
1.58E-04	6.17E+00	9.42E+00	4.94E+00	6.78E+00	4.14E+00	5.45E+00
1.26E-04	6.22E+00	9.57E+00	4.96E+00	6.81E+00	4.15E+00	5.47E+00
1.00E-04	6.22E+00	9.59E+00	4.97E+00	6.81E+00	4.15E+00	5.48E+00
7.94E-05	6.23E+00	9.60E+00	4.98E+00	6.81E+00	4.16E+00	5.48E+00
6.31E-05	6.23E+00	9.60E+00	4.98E+00	6.81E+00	4.16E+00	5.49E+00
5.01E-05	6.24E+00	9.61E+00	4.98E+00	6.81E+00	4.16E+00	5.49E+00
3.98E-05	6.25E+00	9.62E+00	4.99E+00	6.87E+00	4.16E+00	5.49E+00
3.16E-05	6.25E+00	9.62E+00	4.99E+00	6.87E+00	4.16E+00	5.49E+00
2.51E-05	6.25E+00	9.62E+00	4.99E+00	6.88E+00	4.16E+00	5.49E+00
2.00E-05	6.28E+00	9.72E+00	5.00E+00	6.88E+00	4.16E+00	5.49E+00
1.58E-05	6.28E+00	9.72E+00	5.00E+00	6.88E+00	4.16E+00	5.49E+00
1.26E-05	6.28E+00	9.72E+00	5.00E+00	6.88E+00	4.16E+00	5.49E+00
1.00E-05	6.28E+00	9.73E+00	5.00E+00	6.88E+00	4.16E+00	5.49E+00
OPERATION TIME (MIN)	197284	41764	44640	43200	44640	23040



TABLE 26. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 12-GAGE  
(32.2-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
6.31E-01	3.04E-03	0.00E+00	8.96E-03	0.00E+00	4.48E-03	0.00E+00
5.01E-01	7.10E-03	0.00E+00	1.79E-02	0.00E+00	1.34E-02	0.00E+00
3.98E-01	2.23E-02	9.62E-03	3.58E-02	0.00E+00	5.38E-02	0.00E+00
3.16E-01	4.77E-02	1.44E-02	4.93E-02	9.26E-03	1.25E-01	2.60E-02
2.51E-01	8.42E-02	1.92E-02	6.72E-02	5.56E-02	2.06E-01	5.21E-02
1.99E-01	1.46E-01	4.33E-02	1.30E-01	1.57E-01	2.87E-01	6.94E-02
1.58E-01	2.22E-01	1.11E-01	1.70E-01	2.55E-01	4.12E-01	9.55E-02
1.26E-01	3.50E-01	3.75E-01	2.33E-01	3.47E-01	5.47E-01	1.56E-01
1.00E-01	5.30E-01	7.93E-01	3.23E-01	4.54E-01	6.81E-01	3.04E-01
7.94E-02	7.46E-01	1.18E+00	5.38E-01	5.93E-01	8.31E-01	4.86E-01
6.31E-02	1.01E+00	1.63E+00	7.44E-01	7.69E-01	1.04E+00	7.64E-01
5.01E-02	1.26E+00	1.92E+00	9.45E-01	9.81E-01	1.20E+00	1.29E+00
3.98E-02	1.57E+00	2.33E+00	1.24E+00	1.26E+00	1.44E+00	1.70E+00
3.16E-02	1.87E+00	2.75E+00	1.56E+00	1.45E+00	1.68E+00	2.03E+00
2.51E-02	2.19E+00	3.18E+00	1.87E+00	1.79E+00	1.90E+00	2.31E+00
1.99E-02	2.52E+00	3.59E+00	2.21E+00	2.25E+00	2.07E+00	2.60E+00
1.58E-02	2.82E+00	3.90E+00	2.41E+00	2.69E+00	2.34E+00	2.80E+00
1.26E-02	3.11E+00	4.30E+00	2.66E+00	3.06E+00	2.57E+00	2.99E+00
1.00E-02	3.43E+00	4.67E+00	2.97E+00	3.46E+00	2.80E+00	3.24E+00
7.94E-03	3.70E+00	5.01E+00	3.29E+00	3.77E+00	2.94E+00	3.51E+00
6.31E-03	3.97E+00	5.26E+00	3.53E+00	4.14E+00	3.09E+00	3.84E+00
5.01E-03	4.22E+00	5.58E+00	3.83E+00	4.42E+00	3.24E+00	4.09E+00
3.98E-03	4.46E+00	5.91E+00	4.01E+00	4.64E+00	3.40E+00	4.42E+00
3.16E-03	4.74E+00	6.32E+00	4.26E+00	5.01E+00	3.56E+00	4.64E+00
2.51E-03	5.02E+00	6.72E+00	4.46E+00	5.36E+00	3.69E+00	4.95E+00
2.00E-03	5.26E+00	7.24E+00	4.61E+00	5.56E+00	3.86E+00	5.07E+00
1.58E-03	5.47E+00	7.67E+00	4.74E+00	5.83E+00	3.95E+00	5.16E+00
1.26E-03	5.65E+00	7.92E+00	4.92E+00	6.01E+00	4.09E+00	5.33E+00
1.00E-03	5.81E+00	8.20E+00	5.01E+00	6.22E+00	4.16E+00	5.51E+00
7.94E-04	5.99E+00	8.54E+00	5.13E+00	6.33E+00	4.35E+00	5.62E+00
6.31E-04	6.14E+00	8.88E+00	5.19E+00	6.50E+00	4.37E+00	5.76E+00
5.01E-04	6.25E+00	9.10E+00	5.22E+00	6.66E+00	4.45E+00	5.83E+00
3.98E-04	6.38E+00	9.44E+00	5.25E+00	6.75E+00	4.54E+00	5.91E+00
3.16E-04	6.52E+00	9.76E+00	5.33E+00	6.90E+00	4.62E+00	5.93E+00
2.51E-04	6.60E+00	9.94E+00	5.37E+00	6.99E+00	4.67E+00	5.98E+00
2.00E-04	6.68E+00	1.01E+01	5.38E+00	7.12E+00	4.74E+00	5.99E+00
1.58E-04	6.71E+00	1.02E+01	5.40E+00	7.16E+00	4.74E+00	6.02E+00
1.26E-04	6.75E+00	1.03E+01	5.41E+00	7.18E+00	4.75E+00	6.02E+00
1.00E-04	6.78E+00	1.04E+01	5.43E+00	7.22E+00	4.75E+00	6.04E+00
7.94E-05	6.82E+00	1.05E+01	5.45E+00	7.25E+00	4.75E+00	6.07E+00
6.31E-05	6.85E+00	1.06E+01	5.47E+00	7.26E+00	4.76E+00	6.07E+00
5.01E-05	6.85E+00	1.06E+01	5.47E+00	7.26E+00	4.76E+00	6.07E+00
3.98E-05	6.88E+00	1.06E+01	5.48E+00	7.32E+00	4.76E+00	6.08E+00
3.16E-05	6.88E+00	1.06E+01	5.48E+00	7.32E+00	4.76E+00	6.08E+00
2.51E-05	6.88E+00	1.06E+01	5.48E+00	7.32E+00	4.76E+00	6.08E+00
2.00E-05	6.88E+00	1.06E+01	5.48E+00	7.32E+00	4.76E+00	6.09E+00
1.58E-05	6.89E+00	1.07E+01	5.49E+00	7.33E+00	4.76E+00	6.09E+00

OPERATION TIME (MIN)	197118	41598	44640	43200	44640	23040
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-CORRECTED SEPTEMBER 1973





TABLE 28. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 2-GAGE  
(3.7-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.00E+00	2.04E-03	0.00E+00	0.00E+00	0.00E+00	8.96E-03	0.00E+00
7.94E-01	7.12E-03	0.00E+00	0.00E+00	0.00E+00	3.14E-02	0.00E+00
6.31E-01	2.65E-02	0.00E+00	1.34E-02	0.00E+00	1.03E-01	0.00E+00
5.01E-01	4.17E-02	0.00E+00	2.24E-02	0.00E+00	1.48E-01	2.60E-02
3.98E-01	6.31E-02	9.76E-03	4.48E-02	4.63E-03	1.93E-01	5.21E-02
3.16E-01	9.57E-02	2.93E-02	8.51E-02	2.31E-02	2.33E-01	1.04E-01
2.51E-01	1.26E-01	4.88E-02	1.30E-01	3.70E-02	2.78E-01	1.30E-01
1.99E-01	1.64E-01	8.30E-02	1.79E-01	6.48E-02	3.32E-01	1.39E-01
1.58E-01	2.22E-01	1.56E-01	2.46E-01	6.94E-02	4.30E-01	1.74E-01
1.26E-01	3.04E-01	3.37E-01	2.73E-01	1.11E-01	5.11E-01	2.69E-01
1.00E-01	4.56E-01	7.47E-01	3.45E-01	1.67E-01	5.69E-01	4.77E-01
7.94E-02	6.38E-01	1.09E+00	4.35E-01	3.61E-01	6.36E-01	7.47E-01
6.31E-02	8.85E-01	1.58E+00	6.32E-01	6.11E-01	7.08E-01	9.98E-01
5.01E-02	1.09E+00	1.95E+00	8.47E-01	7.55E-01	7.66E-01	1.26E+00
3.98E-02	1.30E+00	2.33E+00	9.95E-01	1.05E+00	8.02E-01	1.49E+00
3.16E-02	1.53E+00	2.66E+00	1.16E+00	1.34E+00	8.83E-01	1.84E+00
2.51E-02	1.77E+00	3.10E+00	1.31E+00	1.59E+00	1.03E+00	2.07E+00
1.99E-02	1.96E+00	3.42E+00	1.38E+00	1.84E+00	1.15E+00	2.32E+00
1.58E-02	2.15E+00	3.83E+00	1.46E+00	2.09E+00	1.21E+00	2.48E+00
1.26E-02	2.34E+00	4.29E+00	1.57E+00	2.23E+00	1.27E+00	2.60E+00
1.00E-02	2.48E+00	4.66E+00	1.64E+00	2.38E+00	1.32E+00	2.67E+00
7.94E-03	2.62E+00	4.85E+00	1.72E+00	2.57E+00	1.37E+00	2.90E+00
6.31E-03	2.74E+00	5.23E+00	1.74E+00	2.71E+00	1.40E+00	2.93E+00
5.01E-03	2.85E+00	5.51E+00	1.78E+00	2.79E+00	1.45E+00	2.99E+00
3.98E-03	2.92E+00	5.64E+00	1.80E+00	2.92E+00	1.47E+00	3.08E+00
3.16E-03	3.02E+00	5.90E+00	1.81E+00	3.07E+00	1.50E+00	3.08E+00
2.51E-03	3.08E+00	6.09E+00	1.86E+00	3.10E+00	1.53E+00	3.09E+00
2.00E-03	3.16E+00	6.41E+00	1.87E+00	3.14E+00	1.54E+00	3.09E+00
1.58E-03	3.22E+00	6.62E+00	1.88E+00	3.16E+00	1.55E+00	3.16E+00
1.26E-03	3.28E+00	6.86E+00	1.88E+00	3.16E+00	1.56E+00	3.16E+00
1.00E-03	3.30E+00	6.97E+00	1.88E+00	3.16E+00	1.56E+00	3.17E+00
7.94E-04	3.31E+00	6.99E+00	1.89E+00	3.16E+00	1.56E+00	3.17E+00
6.31E-04	3.32E+00	7.06E+00	1.89E+00	3.16E+00	1.56E+00	3.17E+00
5.01E-04	3.34E+00	7.07E+00	1.90E+00	3.21E+00	1.56E+00	3.17E+00
3.98E-04	3.35E+00	7.11E+00	1.90E+00	3.21E+00	1.56E+00	3.19E+00
3.16E-04	3.35E+00	7.11E+00	1.90E+00	3.21E+00	1.56E+00	3.19E+00
2.51E-04	3.36E+00	7.18E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
2.00E-04	3.37E+00	7.20E+00	1.90E+00	3.22E+00	1.59E+00	3.19E+00
1.58E-04	3.37E+00	7.20E+00	1.90E+00	3.22E+00	1.59E+00	3.19E+00
1.26E-04	3.37E+00	7.20E+00	1.90E+00	3.22E+00	1.59E+00	3.19E+00
1.00E-04	3.41E+00	7.28E+00	1.90E+00	3.23E+00	1.65E+00	3.19E+00
OPERATION TIME (MIN)	196506	40986	44640	43200	44640	23040

-CORRECTED SEPTEMBER 1973





TABLE 29. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 4-GAGE  
(9.4-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
7.94E-01	2.02E-03	0.00E+00	4.48E-03	0.00E+00	4.48E-03	0.00E+00
6.31E-01	1.21E-02	0.00E+00	2.24E-02	0.00E+00	3.14E-02	0.00E+00
5.01E-01	2.93E-02	0.00E+00	6.27E-02	0.00E+00	6.27E-02	8.68E-03
3.98E-01	5.25E-02	0.00E+00	9.86E-02	4.63E-03	1.16E-01	2.60E-02
3.16E-01	8.68E-02	2.35E-02	1.25E-01	9.26E-03	1.93E-01	6.94E-02
2.51E-01	1.24E-01	4.70E-02	1.66E-01	4.63E-02	2.46E-01	9.55E-02
1.99E-01	1.64E-01	1.03E-01	2.06E-01	6.48E-02	2.91E-01	1.30E-01
1.58E-01	2.11E-01	1.64E-01	2.51E-01	9.26E-02	3.54E-01	1.65E-01
1.26E-01	3.19E-01	3.90E-01	3.36E-01	1.25E-01	4.30E-01	3.04E-01
1.00E-01	4.76E-01	7.33E-01	4.35E-01	1.76E-01	5.20E-01	5.56E-01
7.94E-02	6.99E-01	1.19E+00	5.42E-01	3.43E-01	6.00E-01	9.55E-01
6.31E-02	9.34E-01	1.63E+00	8.02E-01	4.91E-01	6.85E-01	1.22E+00
5.01E-02	1.14E+00	2.04E+00	9.59E-01	6.48E-01	7.75E-01	1.46E+00
3.98E-02	1.38E+00	2.45E+00	1.16E+00	8.89E-01	9.14E-01	1.68E+00
3.16E-02	1.66E+00	2.87E+00	1.34E+00	1.30E+00	1.02E+00	1.95E+00
2.51E-02	1.95E+00	3.40E+00	1.47E+00	1.68E+00	1.19E+00	2.15E+00
1.99E-02	2.22E+00	3.85E+00	1.60E+00	2.00E+00	1.33E+00	2.53E+00
1.58E-02	2.45E+00	4.26E+00	1.73E+00	2.29E+00	1.43E+00	2.80E+00
1.26E-02	2.66E+00	4.65E+00	1.88E+00	2.52E+00	1.49E+00	3.02E+00
1.00E-02	2.82E+00	4.93E+00	1.95E+00	2.74E+00	1.56E+00	3.21E+00
7.94E-03	3.01E+00	5.22E+00	2.07E+00	2.97E+00	1.75E+00	3.30E+00
6.31E-03	3.20E+00	5.60E+00	2.20E+00	3.20E+00	1.82E+00	3.39E+00
5.01E-03	3.34E+00	5.93E+00	2.23E+00	3.38E+00	1.89E+00	3.48E+00
3.98E-03	3.47E+00	6.27E+00	2.31E+00	3.46E+00	1.95E+00	3.52E+00
3.16E-03	3.58E+00	6.46E+00	2.34E+00	3.58E+00	1.98E+00	3.73E+00
2.51E-03	3.67E+00	6.74E+00	2.39E+00	3.64E+00	2.03E+00	3.76E+00
2.00E-03	3.75E+00	6.88E+00	2.42E+00	3.76E+00	2.07E+00	3.81E+00
1.58E-03	3.84E+00	7.09E+00	2.49E+00	3.84E+00	2.08E+00	3.85E+00
1.26E-03	3.96E+00	7.51E+00	2.51E+00	3.92E+00	2.10E+00	3.85E+00
1.00E-03	4.00E+00	7.67E+00	2.52E+00	3.93E+00	2.11E+00	3.87E+00
7.94E-04	4.07E+00	7.96E+00	2.53E+00	3.94E+00	2.12E+00	3.87E+00
6.31E-04	4.12E+00	8.17E+00	2.53E+00	3.94E+00	2.12E+00	3.88E+00
5.01E-04	4.13E+00	8.22E+00	2.53E+00	3.95E+00	2.13E+00	3.88E+00
3.98E-04	4.16E+00	8.30E+00	2.53E+00	4.01E+00	2.16E+00	3.88E+00
3.16E-04	4.17E+00	8.31E+00	2.53E+00	4.01E+00	2.16E+00	3.88E+00
2.51E-04	4.18E+00	8.31E+00	2.54E+00	4.03E+00	2.16E+00	3.88E+00
2.00E-04	4.19E+00	8.37E+00	2.54E+00	4.04E+00	2.17E+00	3.89E+00
1.58E-04	4.21E+00	8.39E+00	2.54E+00	4.07E+00	2.18E+00	3.89E+00
1.26E-04	4.21E+00	8.39E+00	2.54E+00	4.07E+00	2.18E+00	3.89E+00
1.00E-04	4.21E+00	8.40E+00	2.55E+00	4.07E+00	2.18E+00	3.89E+00
7.94E-05	4.21E+00	8.40E+00	2.55E+00	4.07E+00	2.18E+00	3.89E+00
6.31E-05	4.23E+00	8.40E+00	2.55E+00	4.08E+00	2.27E+00	3.89E+00
5.01E-05	4.25E+00	8.48E+00	2.55E+00	4.08E+00	2.27E+00	3.89E+00
3.98E-05	4.25E+00	8.48E+00	2.55E+00	4.08E+00	2.27E+00	3.89E+00
3.16E-05	4.27E+00	8.56E+00	2.55E+00	4.09E+00	2.27E+00	3.89E+00
OPERATION TIME (MIN)	198090	42570	44640	43200	44640	23040

-CORRECTED SEPTEMBER 1973



TABLE 30. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 6-GAGE  
(14.9-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
6.31E-01	4.05E-03	0.00E+00	1.34E-02	0.00E+00	4.48E-03	0.00E+00
5.01E-01	1.32E-02	0.00E+00	4.03E-02	0.00E+00	1.79E-02	0.00E+00
3.98E-01	3.85E-02	4.78E-03	9.86E-02	0.00E+00	6.72E-02	0.00E+00
3.16E-01	6.49E-02	2.39E-02	1.34E-01	0.00E+00	1.21E-01	1.74E-02
2.51E-01	1.04E-01	5.26E-02	1.79E-01	4.63E-03	1.97E-01	6.08E-02
1.99E-01	1.64E-01	1.00E-01	2.51E-01	3.24E-02	2.78E-01	1.39E-01
1.58E-01	2.32E-01	1.96E-01	3.23E-01	6.94E-02	3.58E-01	1.82E-01
1.26E-01	3.44E-01	4.35E-01	3.90E-01	8.80E-02	4.48E-01	3.65E-01
1.00E-01	4.88E-01	8.17E-01	4.57E-01	1.76E-01	5.20E-01	4.77E-01
7.94E-02	6.87E-01	1.15E+00	6.32E-01	3.38E-01	6.18E-01	7.47E-01
6.31E-02	9.73E-01	1.58E+00	8.83E-01	5.69E-01	7.62E-01	1.21E+00
5.01E-02	1.18E+00	1.91E+00	1.09E+00	7.08E-01	8.69E-01	1.51E+00
3.98E-02	1.36E+00	2.21E+00	1.24E+00	8.84E-01	9.72E-01	1.74E+00
3.16E-02	1.64E+00	2.66E+00	1.42E+00	1.24E+00	1.10E+00	2.01E+00
2.51E-02	1.95E+00	3.10E+00	1.58E+00	1.69E+00	1.31E+00	2.31E+00
1.99E-02	2.21E+00	3.42E+00	1.77E+00	2.07E+00	1.44E+00	2.61E+00
1.58E-02	2.49E+00	3.74E+00	2.06E+00	2.48E+00	1.56E+00	2.85E+00
1.26E-02	2.70E+00	3.93E+00	2.21E+00	2.77E+00	1.67E+00	3.24E+00
1.00E-02	2.88E+00	4.23E+00	2.33E+00	3.02E+00	1.76E+00	3.41E+00
7.94E-03	3.03E+00	4.52E+00	2.43E+00	3.21E+00	1.81E+00	3.57E+00
6.31E-03	3.21E+00	4.85E+00	2.52E+00	3.43E+00	1.88E+00	3.73E+00
5.01E-03	3.39E+00	5.13E+00	2.71E+00	3.59E+00	2.02E+00	3.78E+00
3.98E-03	3.55E+00	5.48E+00	2.82E+00	3.77E+00	2.09E+00	3.85E+00
3.16E-03	3.70E+00	5.85E+00	2.91E+00	3.90E+00	2.16E+00	3.96E+00
2.51E-03	3.82E+00	6.20E+00	2.97E+00	3.98E+00	2.21E+00	3.97E+00
2.00E-03	3.95E+00	6.51E+00	2.99E+00	4.05E+00	2.29E+00	4.17E+00
1.58E-03	4.05E+00	6.78E+00	3.03E+00	4.12E+00	2.36E+00	4.20E+00
1.26E-03	4.14E+00	6.99E+00	3.06E+00	4.20E+00	2.45E+00	4.25E+00
1.00E-03	4.24E+00	7.19E+00	3.10E+00	4.30E+00	2.52E+00	4.32E+00
7.94E-04	4.32E+00	7.42E+00	3.10E+00	4.38E+00	2.54E+00	4.33E+00
6.31E-04	4.36E+00	7.55E+00	3.12E+00	4.41E+00	2.58E+00	4.36E+00
5.01E-04	4.40E+00	7.69E+00	3.13E+00	4.41E+00	2.59E+00	4.36E+00
3.98E-04	4.43E+00	7.80E+00	3.14E+00	4.41E+00	2.61E+00	4.37E+00
3.16E-04	4.45E+00	7.86E+00	3.15E+00	4.43E+00	2.62E+00	4.37E+00
2.51E-04	4.49E+00	7.93E+00	3.16E+00	4.50E+00	2.64E+00	4.37E+00
2.00E-04	4.50E+00	8.00E+00	3.16E+00	4.50E+00	2.64E+00	4.37E+00
1.58E-04	4.52E+00	8.06E+00	3.17E+00	4.53E+00	2.64E+00	4.37E+00
1.26E-04	4.53E+00	8.08E+00	3.17E+00	4.54E+00	2.64E+00	4.37E+00
1.00E-04	4.53E+00	8.08E+00	3.17E+00	4.54E+00	2.64E+00	4.37E+00
7.94E-05	4.53E+00	8.08E+00	3.17E+00	4.54E+00	2.64E+00	4.37E+00
6.31E-05	4.53E+00	8.08E+00	3.17E+00	4.54E+00	2.64E+00	4.38E+00
5.01E-05	4.53E+00	8.08E+00	3.17E+00	4.54E+00	2.64E+00	4.38E+00
3.98E-05	4.56E+00	8.08E+00	3.17E+00	4.55E+00	2.73E+00	4.38E+00
3.16E-05	4.57E+00	8.12E+00	3.18E+00	4.55E+00	2.73E+00	4.38E+00
2.51E-05	4.57E+00	8.13E+00	3.18E+00	4.55E+00	2.73E+00	4.38E+00
2.00E-05	4.57E+00	8.13E+00	3.18E+00	4.56E+00	2.73E+00	4.38E+00
1.58E-05	4.57E+00	8.13E+00	3.18E+00	4.56E+00	2.73E+00	4.38E+00

OPERATION TIME (MIN)	197372	41852	44640	43200	44640	23040
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TABLE 31. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 8-GAGE  
(21.2-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
5.01E-01	4.06E-03	4.80E-03	1.34E-02	0.00E+00	0.00E+00	0.00E+00
3.98E-01	2.43E-02	1.44E-02	6.72E-02	0.00E+00	2.69E-02	0.00E+00
3.16E-01	5.88E-02	1.92E-02	1.30E-01	0.00E+00	1.12E-01	0.00E+00
2.51E-01	1.08E-01	1.01E-01	1.97E-01	0.00E+00	1.75E-01	1.74E-02
1.99E-01	1.70E-01	1.63E-01	2.55E-01	2.78E-02	2.78E-01	7.81E-02
1.58E-01	2.68E-01	2.98E-01	3.41E-01	8.33E-02	3.76E-01	2.08E-01
1.26E-01	3.72E-01	4.56E-01	4.21E-01	1.67E-01	4.61E-01	3.39E-01
1.00E-01	5.39E-01	8.94E-01	5.02E-01	2.45E-01	5.65E-01	4.69E-01
7.94E-02	7.26E-01	1.23E+00	6.14E-01	4.44E-01	6.59E-01	6.86E-01
6.31E-02	9.61E-01	1.66E+00	8.56E-01	5.88E-01	7.48E-01	1.02E+00
5.01E-02	1.21E+00	2.07E+00	1.10E+00	7.92E-01	8.60E-01	1.35E+00
3.98E-02	1.48E+00	2.43E+00	1.31E+00	1.05E+00	9.81E-01	1.83E+00
3.16E-02	1.71E+00	2.83E+00	1.52E+00	1.24E+00	1.09E+00	2.17E+00
2.51E-02	2.00E+00	3.18E+00	1.70E+00	1.64E+00	1.26E+00	2.53E+00
1.99E-02	2.30E+00	3.55E+00	1.96E+00	2.05E+00	1.43E+00	2.86E+00
1.58E-02	2.54E+00	3.77E+00	2.19E+00	2.47E+00	1.55E+00	3.06E+00
1.26E-02	2.76E+00	4.02E+00	2.37E+00	2.84E+00	1.67E+00	3.26E+00
1.00E-02	2.99E+00	4.30E+00	2.61E+00	3.07E+00	1.78E+00	3.54E+00
7.94E-03	3.19E+00	4.59E+00	2.72E+00	3.33E+00	1.91E+00	3.79E+00
6.31E-03	3.41E+00	5.02E+00	2.86E+00	3.53E+00	2.05E+00	4.00E+00
5.01E-03	3.58E+00	5.30E+00	2.94E+00	3.71E+00	2.15E+00	4.26E+00
3.98E-03	3.79E+00	5.59E+00	3.14E+00	3.94E+00	2.28E+00	4.44E+00
3.16E-03	3.99E+00	6.04E+00	3.25E+00	4.18E+00	2.37E+00	4.53E+00
2.51E-03	4.17E+00	6.47E+00	3.32E+00	4.32E+00	2.49E+00	4.63E+00
2.00E-03	4.29E+00	6.75E+00	3.36E+00	4.43E+00	2.58E+00	4.69E+00
1.58E-03	4.43E+00	7.11E+00	3.42E+00	4.52E+00	2.65E+00	4.77E+00
1.26E-03	4.54E+00	7.40E+00	3.45E+00	4.61E+00	2.69E+00	4.94E+00
1.00E-03	4.63E+00	7.60E+00	3.49E+00	4.69E+00	2.75E+00	5.03E+00
7.94E-04	4.73E+00	7.79E+00	3.56E+00	4.75E+00	2.83E+00	5.10E+00
6.31E-04	4.80E+00	8.03E+00	3.56E+00	4.84E+00	2.85E+00	5.10E+00
5.01E-04	4.90E+00	8.25E+00	3.60E+00	4.91E+00	2.93E+00	5.13E+00
3.98E-04	4.94E+00	8.39E+00	3.63E+00	4.94E+00	2.93E+00	5.13E+00
3.16E-04	5.01E+00	8.69E+00	3.64E+00	4.96E+00	2.94E+00	5.13E+00
2.51E-04	5.04E+00	8.80E+00	3.66E+00	4.97E+00	2.95E+00	5.14E+00
2.00E-04	5.07E+00	8.88E+00	3.67E+00	4.99E+00	2.96E+00	5.15E+00
1.58E-04	5.09E+00	8.89E+00	3.67E+00	5.04E+00	2.97E+00	5.15E+00
1.26E-04	5.13E+00	9.01E+00	3.67E+00	5.09E+00	2.97E+00	5.16E+00
1.00E-04	5.13E+00	9.03E+00	3.68E+00	5.09E+00	2.97E+00	5.16E+00
7.94E-05	5.14E+00	9.05E+00	3.68E+00	5.10E+00	2.97E+00	5.16E+00
6.31E-05	5.14E+00	9.05E+00	3.68E+00	5.10E+00	2.97E+00	5.17E+00
5.01E-05	5.14E+00	9.05E+00	3.68E+00	5.11E+00	2.97E+00	5.17E+00
3.98E-05	5.14E+00	9.05E+00	3.68E+00	5.11E+00	2.97E+00	5.17E+00
3.16E-05	5.15E+00	9.05E+00	3.68E+00	5.11E+00	3.00E+00	5.17E+00
2.51E-05	5.17E+00	9.09E+00	3.68E+00	5.12E+00	3.06E+00	5.17E+00
2.00E-05	5.17E+00	9.09E+00	3.68E+00	5.12E+00	3.06E+00	5.17E+00
1.58E-05	5.17E+00	9.10E+00	3.68E+00	5.12E+00	3.06E+00	5.17E+00
1.26E-05	5.17E+00	9.10E+00	3.68E+00	5.12E+00	3.06E+00	5.17E+00

OPERATION TIME (MIN)	197146	41626	44640	43200	44640	23040
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TABLE 32. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 10-GAGE (26.9-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
5.01E-01	3.05E-03	1.45E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
3.98E-01	1.62E-02	2.41E-02	3.58E-02	0.00E+00	1.34E-02	0.00E+00
3.16E-01	3.76E-02	2.89E-02	9.41E-02	0.00E+00	4.48E-02	0.00E+00
2.51E-01	9.14E-02	6.27E-02	1.88E-01	9.26E-03	1.48E-01	0.00E+00
1.99E-01	1.61E-01	1.69E-01	2.64E-01	5.09E-02	2.28E-01	2.60E-02
1.58E-01	2.61E-01	3.04E-01	3.32E-01	1.16E-01	3.58E-01	1.30E-01
1.26E-01	3.75E-01	5.01E-01	3.94E-01	1.67E-01	4.53E-01	3.47E-01
1.00E-01	5.37E-01	8.63E-01	4.79E-01	3.01E-01	5.38E-01	5.03E-01
7.94E-02	7.14E-01	1.22E+00	5.73E-01	4.77E-01	6.41E-01	6.51E-01
6.31E-02	9.48E-01	1.67E+00	7.75E-01	6.71E-01	7.12E-01	9.64E-01
5.01E-02	1.21E+00	2.14E+00	1.03E+00	8.75E-01	7.97E-01	1.31E+00
3.98E-02	1.52E+00	2.66E+00	1.33E+00	1.10E+00	9.27E-01	1.80E+00
3.16E-02	1.78E+00	2.93E+00	1.58E+00	1.36E+00	1.06E+00	2.31E+00
2.51E-02	2.03E+00	3.27E+00	1.76E+00	1.63E+00	1.22E+00	2.66E+00
1.99E-02	2.32E+00	3.56E+00	1.98E+00	2.12E+00	1.38E+00	2.93E+00
1.58E-02	2.60E+00	3.85E+00	2.23E+00	2.52E+00	1.55E+00	3.23E+00
1.26E-02	2.87E+00	4.12E+00	2.47E+00	2.96E+00	1.73E+00	3.42E+00
1.00E-02	3.10E+00	4.52E+00	2.61E+00	3.26E+00	1.85E+00	3.65E+00
7.94E-03	3.37E+00	4.75E+00	2.86E+00	3.62E+00	2.03E+00	4.03E+00
6.31E-03	3.63E+00	5.06E+00	3.02E+00	3.94E+00	2.22E+00	4.36E+00
5.01E-03	3.87E+00	5.45E+00	3.20E+00	4.20E+00	2.38E+00	4.57E+00
3.98E-03	4.08E+00	5.77E+00	3.36E+00	4.42E+00	2.47E+00	4.92E+00
3.16E-03	4.28E+00	6.13E+00	3.52E+00	4.56E+00	2.60E+00	5.14E+00
2.51E-03	4.49E+00	6.53E+00	3.70E+00	4.76E+00	2.71E+00	5.30E+00
2.00E-03	4.66E+00	6.86E+00	3.82E+00	4.89E+00	2.80E+00	5.48E+00
1.58E-03	4.79E+00	7.17E+00	3.89E+00	4.95E+00	2.89E+00	5.60E+00
1.26E-03	4.93E+00	7.62E+00	3.92E+00	5.04E+00	2.95E+00	5.72E+00
1.00E-03	5.08E+00	8.00E+00	3.98E+00	5.13E+00	3.02E+00	5.87E+00
7.94E-04	5.21E+00	8.24E+00	4.05E+00	5.26E+00	3.09E+00	5.97E+00
6.31E-04	5.31E+00	8.44E+00	4.12E+00	5.33E+00	3.19E+00	6.03E+00
5.01E-04	5.41E+00	8.65E+00	4.14E+00	5.43E+00	3.22E+00	6.21E+00
3.98E-04	5.48E+00	8.82E+00	4.18E+00	5.49E+00	3.29E+00	6.25E+00
3.16E-04	5.54E+00	8.89E+00	4.26E+00	5.55E+00	3.31E+00	6.31E+00
2.51E-04	5.61E+00	9.19E+00	4.27E+00	5.56E+00	3.31E+00	6.34E+00
2.00E-04	5.65E+00	9.31E+00	4.28E+00	5.59E+00	3.34E+00	6.35E+00
1.58E-04	5.69E+00	9.40E+00	4.29E+00	5.61E+00	3.35E+00	6.36E+00
1.26E-04	5.70E+00	9.41E+00	4.29E+00	5.66E+00	3.36E+00	6.36E+00
1.00E-04	5.72E+00	9.47E+00	4.30E+00	5.69E+00	3.36E+00	6.39E+00
7.94E-05	5.73E+00	9.47E+00	4.30E+00	5.71E+00	3.36E+00	6.40E+00
6.31E-05	5.74E+00	9.48E+00	4.31E+00	5.71E+00	3.36E+00	6.40E+00
5.01E-05	5.74E+00	9.48E+00	4.31E+00	5.72E+00	3.36E+00	6.45E+00
3.98E-05	5.75E+00	9.48E+00	4.31E+00	5.73E+00	3.37E+00	6.45E+00
3.16E-05	5.75E+00	9.48E+00	4.31E+00	5.73E+00	3.37E+00	6.48E+00
2.51E-05	5.76E+00	9.48E+00	4.31E+00	5.73E+00	3.40E+00	6.48E+00
2.00E-05	5.78E+00	9.53E+00	4.31E+00	5.73E+00	3.45E+00	6.48E+00
1.58E-05	5.78E+00	9.53E+00	4.31E+00	5.73E+00	3.45E+00	6.48E+00
1.26E-05	5.78E+00	9.53E+00	4.31E+00	5.73E+00	3.45E+00	6.48E+00
OPERATION TIME (MIN)	197010	41490	44640	43200	44640	23040





TABLE 33. FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR THE 12-GAGE  
(33.3-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
5.01E-01	1.02E-03	0.00E+00	4.48E-03	0.00E+00	0.00E+00	0.00E+00
3.98E-01	1.62E-02	2.41E-02	2.24E-02	0.00E+00	2.69E-02	0.00E+00
3.16E-01	3.45E-02	2.90E-02	7.17E-02	4.63E-03	4.93E-02	0.00E+00
2.51E-01	5.99E-02	3.38E-02	1.48E-01	4.63E-03	8.06E-02	0.00E+00
1.99E-01	1.39E-01	1.54E-01	2.46E-01	3.24E-02	1.88E-01	8.68E-03
1.58E-01	2.30E-01	2.90E-01	3.05E-01	1.30E-01	2.87E-01	5.21E-02
1.26E-01	3.42E-01	4.63E-01	3.81E-01	1.90E-01	4.08E-01	2.08E-01
1.00E-01	5.16E-01	7.97E-01	4.70E-01	2.92E-01	5.38E-01	4.77E-01
7.94E-02	7.21E-01	1.22E+00	5.73E-01	5.32E-01	6.14E-01	6.77E-01
6.31E-02	9.51E-01	1.66E+00	6.99E-01	7.64E-01	7.08E-01	9.90E-01
5.01E-02	1.21E+00	2.12E+00	9.77E-01	9.77E-01	7.89E-01	1.24E+00
3.98E-02	1.51E+00	2.63E+00	1.27E+00	1.23E+00	9.05E-01	1.65E+00
3.16E-02	1.82E+00	3.02E+00	1.54E+00	1.54E+00	1.08E+00	2.18E+00
2.51E-02	2.10E+00	3.37E+00	1.77E+00	1.85E+00	1.23E+00	2.57E+00
1.99E-02	2.41E+00	3.67E+00	1.99E+00	2.40E+00	1.41E+00	2.92E+00
1.58E-02	2.72E+00	3.97E+00	2.28E+00	2.84E+00	1.64E+00	3.18E+00
1.26E-02	3.02E+00	4.23E+00	2.57E+00	3.20E+00	1.86E+00	3.61E+00
1.00E-02	3.34E+00	4.56E+00	2.87E+00	3.58E+00	2.05E+00	4.11E+00
7.94E-03	3.64E+00	4.99E+00	3.07E+00	3.90E+00	2.24E+00	4.57E+00
6.31E-03	3.97E+00	5.34E+00	3.35E+00	4.27E+00	2.44E+00	5.08E+00
5.01E-03	4.23E+00	5.62E+00	3.54E+00	4.60E+00	2.62E+00	5.49E+00
3.98E-03	4.48E+00	5.92E+00	3.76E+00	4.83E+00	2.84E+00	5.79E+00
3.16E-03	4.71E+00	6.31E+00	3.94E+00	5.03E+00	2.94E+00	6.11E+00
2.51E-03	4.91E+00	6.58E+00	4.15E+00	5.22E+00	3.11E+00	6.30E+00
2.00E-03	5.14E+00	7.00E+00	4.30E+00	5.45E+00	3.21E+00	6.55E+00
1.58E-03	5.33E+00	7.42E+00	4.45E+00	5.56E+00	3.32E+00	6.74E+00
1.26E-03	5.49E+00	7.77E+00	4.56E+00	5.67E+00	3.38E+00	6.91E+00
1.00E-03	5.61E+00	8.13E+00	4.61E+00	5.75E+00	3.46E+00	6.93E+00
7.94E-04	5.74E+00	8.44E+00	4.68E+00	5.84E+00	3.48E+00	7.12E+00
6.31E-04	5.86E+00	8.64E+00	4.74E+00	5.98E+00	3.57E+00	7.27E+00
5.01E-04	5.97E+00	8.81E+00	4.90E+00	6.01E+00	3.63E+00	7.36E+00
3.98E-04	6.05E+00	8.99E+00	4.91E+00	6.11E+00	3.64E+00	7.50E+00
3.16E-04	6.14E+00	9.17E+00	4.99E+00	6.17E+00	3.75E+00	7.52E+00
2.51E-04	6.19E+00	9.29E+00	5.03E+00	6.20E+00	3.77E+00	7.55E+00
2.00E-04	6.27E+00	9.51E+00	5.11E+00	6.21E+00	3.83E+00	7.56E+00
1.58E-04	6.32E+00	9.62E+00	5.12E+00	6.25E+00	3.86E+00	7.58E+00
1.26E-04	6.35E+00	9.71E+00	5.13E+00	6.26E+00	3.89E+00	7.59E+00
1.00E-04	6.36E+00	9.71E+00	5.13E+00	6.31E+00	3.90E+00	7.59E+00
7.94E-05	6.37E+00	9.73E+00	5.13E+00	6.35E+00	3.90E+00	7.60E+00
6.31E-05	6.38E+00	9.73E+00	5.14E+00	6.35E+00	3.90E+00	7.62E+00
5.01E-05	6.38E+00	9.74E+00	5.14E+00	6.36E+00	3.90E+00	7.62E+00
3.98E-05	6.39E+00	9.74E+00	5.14E+00	6.36E+00	3.90E+00	7.62E+00
3.16E-05	6.39E+00	9.74E+00	5.14E+00	6.37E+00	3.90E+00	7.62E+00
2.51E-05	6.39E+00	9.74E+00	5.14E+00	6.37E+00	3.90E+00	7.62E+00
2.00E-05	6.40E+00	9.74E+00	5.15E+00	6.37E+00	3.93E+00	7.62E+00
1.58E-05	6.42E+00	9.80E+00	5.15E+00	6.37E+00	3.99E+00	7.62E+00
1.26E-05	6.42E+00	9.80E+00	5.15E+00	6.37E+00	3.99E+00	7.62E+00
1.00E-05	6.42E+00	9.80E+00	5.15E+00	6.37E+00	3.99E+00	7.62E+00

OPERATION TIME (MIN)	196946	41426	44640	43200	44640	23040
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TABLE 36. A SUMMARY OF THE FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR VARIOUS LENGTHS OF NORTH-SOUTH LINES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD							
	14-GAGE	12-GAGE	10-GAGE	8-GAGE	6-GAGE	4-GAGE	2-GAGE	1-GAGE
1.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	2.02E-03	2.04E-03	3.03E-03
1.00E+00	0.00E+00	0.00E+00	0.00E+00	2.03E-03	4.05E-03	4.04E-03	4.07E-03	1.01E-02
7.94E-01	0.00E+00	0.00E+00	3.04E-03	5.07E-03	8.10E-03	9.08E-03	1.22E-02	2.02E-02
6.31E-01	1.02E-03	3.04E-03	6.08E-03	8.11E-03	1.22E-02	1.41E-02	2.75E-02	4.04E-02
5.01E-01	5.08E-03	7.10E-03	1.22E-02	1.42E-02	2.03E-02	3.13E-02	4.68E-02	6.57E-02
3.98E-01	1.63E-02	2.23E-02	2.43E-02	3.14E-02	3.44E-02	5.85E-02	7.13E-02	8.69E-02
3.16E-01	3.76E-02	4.77E-02	5.37E-02	5.98E-02	7.49E-02	8.37E-02	9.88E-02	1.10E-01
2.51E-01	7.01E-02	8.42E-02	9.23E-02	1.10E-01	1.27E-01	1.24E-01	1.35E-01	1.33E-01
1.99E-01	1.31E-01	1.46E-01	1.65E-01	1.73E-01	1.72E-01	1.66E-01	1.70E-01	1.74E-01
1.58E-01	2.22E-01	2.22E-01	2.41E-01	2.21E-01	2.19E-01	2.25E-01	2.09E-01	2.29E-01
1.26E-01	3.55E-01	3.50E-01	3.56E-01	3.53E-01	3.29E-01	3.16E-01	3.17E-01	3.56E-01
1.00E-01	5.38E-01	5.30E-01	5.35E-01	5.20E-01	4.88E-01	4.85E-01	4.76E-01	5.13E-01
7.94E-02	7.44E-01	7.46E-01	7.50E-01	7.55E-01	7.08E-01	6.96E-01	6.73E-01	7.37E-01
6.31E-02	1.02E+00	1.01E+00	1.00E+00	9.91E-01	9.18E-01	9.10E-01	8.88E-01	9.20E-01
5.01E-02	1.27E+00	1.26E+00	1.26E+00	1.21E+00	1.15E+00	1.14E+00	1.13E+00	1.15E+00
3.98E-02	1.57E+00	1.57E+00	1.54E+00	1.50E+00	1.41E+00	1.40E+00	1.36E+00	1.38E+00
3.16E-02	1.92E+00	1.87E+00	1.83E+00	1.77E+00	1.63E+00	1.64E+00	1.61E+00	1.58E+00
2.51E-02	2.26E+00	2.19E+00	2.17E+00	2.08E+00	1.94E+00	1.88E+00	1.85E+00	1.82E+00
1.99E-02	2.59E+00	2.52E+00	2.46E+00	2.40E+00	2.22E+00	2.15E+00	2.05E+00	2.04E+00
1.58E-02	2.91E+00	2.82E+00	2.77E+00	2.67E+00	2.50E+00	2.38E+00	2.29E+00	2.22E+00
1.26E-02	3.26E+00	3.11E+00	3.04E+00	2.92E+00	2.74E+00	2.60E+00	2.51E+00	2.42E+00
1.00E-02	3.56E+00	3.43E+00	3.30E+00	3.22E+00	2.97E+00	2.81E+00	2.70E+00	2.56E+00
7.94E-03	3.84E+00	3.70E+00	3.56E+00	3.44E+00	3.20E+00	3.02E+00	2.83E+00	2.67E+00
6.31E-03	4.13E+00	3.97E+00	3.82E+00	3.65E+00	3.45E+00	3.22E+00	2.95E+00	2.80E+00
5.01E-03	4.42E+00	4.22E+00	4.06E+00	3.89E+00	3.68E+00	3.38E+00	3.03E+00	2.87E+00
3.98E-03	4.69E+00	4.46E+00	4.30E+00	4.12E+00	3.88E+00	3.55E+00	3.11E+00	2.96E+00
3.16E-03	4.99E+00	4.74E+00	4.55E+00	4.34E+00	4.05E+00	3.69E+00	3.17E+00	3.04E+00
2.51E-03	5.32E+00	5.02E+00	4.80E+00	4.54E+00	4.23E+00	3.81E+00	3.24E+00	3.09E+00
2.00E-03	5.60E+00	5.26E+00	5.00E+00	4.72E+00	4.35E+00	3.90E+00	3.30E+00	3.12E+00
1.58E-03	5.84E+00	5.47E+00	5.19E+00	4.90E+00	4.48E+00	4.05E+00	3.36E+00	3.13E+00
1.26E-03	6.08E+00	5.65E+00	5.34E+00	5.06E+00	4.59E+00	4.14E+00	3.40E+00	3.14E+00
1.00E-03	6.31E+00	5.81E+00	5.48E+00	5.15E+00	4.71E+00	4.18E+00	3.43E+00	3.16E+00
7.94E-04	6.49E+00	5.99E+00	5.57E+00	5.25E+00	4.80E+00	4.29E+00	3.43E+00	3.16E+00
6.31E-04	6.63E+00	6.14E+00	5.66E+00	5.33E+00	4.89E+00	4.36E+00	3.45E+00	3.16E+00
5.01E-04	6.75E+00	6.25E+00	5.80E+00	5.45E+00	5.02E+00	4.40E+00	3.46E+00	3.19E+00
3.98E-04	6.88E+00	6.38E+00	5.93E+00	5.50E+00	5.08E+00	4.52E+00	3.47E+00	3.19E+00
3.16E-04	6.97E+00	6.52E+00	6.01E+00	5.60E+00	5.10E+00	4.54E+00	3.47E+00	3.19E+00
2.51E-04	7.08E+00	6.60E+00	6.12E+00	5.68E+00	5.14E+00	4.55E+00	3.49E+00	3.19E+00
2.00E-04	7.15E+00	6.68E+00	6.15E+00	5.72E+00	5.19E+00	4.58E+00	3.49E+00	3.21E+00
1.58E-04	7.20E+00	6.71E+00	6.17E+00	5.77E+00	5.20E+00	4.59E+00	3.49E+00	3.21E+00
1.26E-04	7.25E+00	6.75E+00	6.22E+00	5.77E+00	5.22E+00	4.59E+00	3.49E+00	3.21E+00
1.00E-04	7.29E+00	6.78E+00	6.22E+00	5.77E+00	5.23E+00	4.59E+00	3.50E+00	3.21E+00
7.94E-05	7.33E+00	6.82E+00	6.23E+00	5.79E+00	5.23E+00	4.59E+00	3.50E+00	3.21E+00
6.31E-05	7.35E+00	6.85E+00	6.23E+00	5.79E+00	5.23E+00	4.60E+00	3.50E+00	3.21E+00
5.01E-05	7.37E+00	6.85E+00	6.24E+00	5.81E+00	5.23E+00	4.60E+00	3.50E+00	3.21E+00
3.98E-05	7.38E+00	6.88E+00	6.25E+00	5.81E+00	5.25E+00	4.60E+00	3.50E+00	3.21E+00
3.16E-05	7.40E+00	6.88E+00	6.25E+00	5.81E+00	5.25E+00	4.61E+00	3.50E+00	3.21E+00
2.51E-05	7.40E+00	6.88E+00	6.25E+00	5.82E+00	5.25E+00	4.61E+00	3.50E+00	3.21E+00
2.00E-05	7.40E+00	6.88E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.50E+00	3.21E+00
1.58E-05	7.40E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.50E+00	3.21E+00
1.26E-05	7.40E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.50E+00	3.21E+00
1.00E-05	7.40E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.50E+00	3.21E+00
7.94E-06	7.41E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.50E+00	3.21E+00

OPERATION TIME (MIN)	196760	197118	197284	197292	197492	198244	196444	197830
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-CORRECTED SEPTEMBER 1973



TABLE 37. A SUMMARY OF THE FREQUENCIES OF 2-MINUTE AVERAGE PRECIPITATION RATES FOR VARIOUS LENGTHS OF EAST-WEST LINES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD							
	14-GAGE	12-GAGE	10-GAGE	8-GAGE	6-GAGE	4-GAGE	2-GAGE	1-GAGE
1.26E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.03E-03
1.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.04E-03	1.01E-02
7.94E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.02E-03	7.12E-03	2.02E-02
6.31E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.05E-03	1.21E-02	2.65E-02	4.04E-02
5.01E-01	0.00E+00	1.02E-03	3.05E-03	4.06E-03	1.32E-02	2.93E-02	4.17E-02	6.57E-02
3.98E-01	6.09E-03	1.62E-02	1.62E-02	2.43E-02	3.85E-02	5.25E-02	6.31E-02	8.69E-02
3.16E-01	2.34E-02	3.45E-02	3.76E-02	5.88E-02	6.49E-02	8.68E-02	9.57E-02	1.10E-01
2.51E-01	5.28E-02	5.99E-02	9.14E-02	1.08E-01	1.04E-01	1.24E-01	1.26E-01	1.33E-01
1.99E-01	1.10E-01	1.39E-01	1.61E-01	1.70E-01	1.64E-01	1.64E-01	1.64E-01	1.74E-01
1.58E-01	2.25E-01	2.30E-01	2.61E-01	2.68E-01	2.32E-01	2.11E-01	2.22E-01	2.29E-01
1.26E-01	3.44E-01	3.42E-01	3.75E-01	3.72E-01	3.44E-01	3.19E-01	3.04E-01	3.56E-01
1.00E-01	5.32E-01	5.16E-01	5.37E-01	5.39E-01	4.88E-01	4.76E-01	4.56E-01	5.13E-01
7.94E-02	7.45E-01	7.21E-01	7.14E-01	7.26E-01	6.87E-01	6.99E-01	6.38E-01	7.37E-01
6.31E-02	9.83E-01	9.51E-01	9.48E-01	9.61E-01	9.73E-01	9.34E-01	8.85E-01	9.20E-01
5.01E-02	1.26E+00	1.21E+00	1.21E+00	1.21E+00	1.18E+00	1.14E+00	1.09E+00	1.15E+00
3.98E-02	1.56E+00	1.51E+00	1.52E+00	1.48E+00	1.36E+00	1.38E+00	1.30E+00	1.38E+00
3.16E-02	1.89E+00	1.82E+00	1.78E+00	1.71E+00	1.64E+00	1.66E+00	1.53E+00	1.58E+00
2.51E-02	2.19E+00	2.10E+00	2.03E+00	2.00E+00	1.95E+00	1.95E+00	1.77E+00	1.82E+00
1.99E-02	2.53E+00	2.41E+00	2.32E+00	2.30E+00	2.21E+00	2.22E+00	1.96E+00	2.04E+00
1.58E-02	2.84E+00	2.72E+00	2.60E+00	2.54E+00	2.49E+00	2.45E+00	2.15E+00	2.22E+00
1.26E-02	3.16E+00	3.02E+00	2.87E+00	2.76E+00	2.70E+00	2.66E+00	2.34E+00	2.42E+00
1.00E-02	3.51E+00	3.34E+00	3.10E+00	2.99E+00	2.88E+00	2.82E+00	2.48E+00	2.56E+00
7.94E-03	3.86E+00	3.64E+00	3.37E+00	3.19E+00	3.03E+00	3.01E+00	2.62E+00	2.67E+00
6.31E-03	4.17E+00	3.97E+00	3.63E+00	3.41E+00	3.21E+00	3.20E+00	2.74E+00	2.80E+00
5.01E-03	4.45E+00	4.23E+00	3.87E+00	3.58E+00	3.39E+00	3.34E+00	2.85E+00	2.87E+00
3.98E-03	4.70E+00	4.48E+00	4.08E+00	3.79E+00	3.55E+00	3.47E+00	2.92E+00	2.96E+00
3.16E-03	4.98E+00	4.71E+00	4.28E+00	3.99E+00	3.70E+00	3.58E+00	3.02E+00	3.04E+00
2.51E-03	5.24E+00	4.91E+00	4.49E+00	4.17E+00	3.82E+00	3.67E+00	3.08E+00	3.09E+00
2.00E-03	5.45E+00	5.14E+00	4.66E+00	4.29E+00	3.95E+00	3.75E+00	3.16E+00	3.12E+00
1.58E-03	5.67E+00	5.33E+00	4.79E+00	4.43E+00	4.05E+00	3.84E+00	3.22E+00	3.13E+00
1.26E-03	5.86E+00	5.49E+00	4.93E+00	4.54E+00	4.14E+00	3.96E+00	3.28E+00	3.14E+00
1.00E-03	6.03E+00	5.61E+00	5.08E+00	4.63E+00	4.24E+00	4.00E+00	3.30E+00	3.16E+00
7.94E-04	6.14E+00	5.74E+00	5.21E+00	4.73E+00	4.32E+00	4.07E+00	3.31E+00	3.16E+00
6.31E-04	6.28E+00	5.86E+00	5.31E+00	4.80E+00	4.36E+00	4.12E+00	3.32E+00	3.16E+00
5.01E-04	6.39E+00	5.97E+00	5.41E+00	4.90E+00	4.40E+00	4.13E+00	3.34E+00	3.19E+00
3.98E-04	6.49E+00	6.05E+00	5.48E+00	4.94E+00	4.43E+00	4.16E+00	3.35E+00	3.19E+00
3.16E-04	6.58E+00	6.14E+00	5.54E+00	5.01E+00	4.45E+00	4.17E+00	3.35E+00	3.19E+00
2.51E-04	6.65E+00	6.19E+00	5.61E+00	5.04E+00	4.49E+00	4.18E+00	3.36E+00	3.19E+00
2.00E-04	6.71E+00	6.27E+00	5.65E+00	5.07E+00	4.50E+00	4.19E+00	3.37E+00	3.21E+00
1.58E-04	6.77E+00	6.32E+00	5.69E+00	5.09E+00	4.52E+00	4.21E+00	3.37E+00	3.21E+00
1.26E-04	6.81E+00	6.35E+00	5.70E+00	5.13E+00	4.53E+00	4.21E+00	3.37E+00	3.21E+00
1.00E-04	6.85E+00	6.36E+00	5.72E+00	5.13E+00	4.53E+00	4.21E+00	3.41E+00	3.21E+00
7.94E-05	6.85E+00	6.37E+00	5.73E+00	5.14E+00	4.53E+00	4.21E+00	3.41E+00	3.21E+00
6.31E-05	6.86E+00	6.38E+00	5.74E+00	5.14E+00	4.53E+00	4.23E+00	3.41E+00	3.21E+00
5.01E-05	6.87E+00	6.38E+00	5.74E+00	5.14E+00	4.53E+00	4.25E+00	3.41E+00	3.21E+00
3.98E-05	6.87E+00	6.39E+00	5.75E+00	5.14E+00	4.56E+00	4.25E+00	3.41E+00	3.21E+00
3.16E-05	6.87E+00	6.39E+00	5.75E+00	5.15E+00	4.57E+00	4.27E+00	3.41E+00	3.21E+00
2.51E-05	6.87E+00	6.39E+00	5.76E+00	5.17E+00	4.57E+00	4.27E+00	3.41E+00	3.21E+00
2.00E-05	6.87E+00	6.40E+00	5.78E+00	5.17E+00	4.57E+00	4.27E+00	3.41E+00	3.21E+00
1.58E-05	6.90E+00	6.42E+00	5.78E+00	5.17E+00	4.57E+00	4.27E+00	3.41E+00	3.21E+00
1.26E-05	6.91E+00	6.42E+00	5.78E+00	5.17E+00	4.57E+00	4.27E+00	3.41E+00	3.21E+00
1.00E-05	6.91E+00	6.42E+00	5.78E+00	5.17E+00	4.57E+00	4.27E+00	3.41E+00	3.21E+00
7.94E-06	6.91E+00	6.42E+00	5.78E+00	5.17E+00	4.57E+00	4.27E+00	3.41E+00	3.21E+00

OPERATION TIME (MIN)	196906	196946	197010	197146	197372	198090	198506	197830
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TABLE 38. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 2-GAGE (3.1-MILE) NORTH-SOUTH LINE OF GAGES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.58E+00	1.02E-03	0.00E+00	4.48E-03	0.00E+00	0.00E+00	0.00E+00
1.26E+00	7.13E-03	0.00E+00	8.96E-03	0.00E+00	2.24E-02	0.00E+00
1.00E+00	2.14E-02	0.00E+00	1.34E-02	1.39E-02	6.72E-02	0.00E+00
7.94E-01	3.26E-02	0.00E+00	3.58E-02	1.39E-02	8.96E-02	8.68E-03
6.31E-01	6.21E-02	4.89E-03	7.17E-02	3.24E-02	1.48E-01	3.47E-02
5.01E-01	9.37E-02	1.95E-02	1.12E-01	5.09E-02	2.06E-01	5.21E-02
3.98E-01	1.25E-01	2.93E-02	1.57E-01	6.48E-02	2.69E-01	6.94E-02
3.16E-01	1.51E-01	5.38E-02	1.97E-01	6.48E-02	3.09E-01	8.68E-02
2.51E-01	1.92E-01	9.29E-02	2.24E-01	1.16E-01	3.67E-01	1.13E-01
1.99E-01	2.56E-01	1.66E-01	2.78E-01	1.57E-01	4.21E-01	2.34E-01
1.58E-01	3.36E-01	3.13E-01	3.14E-01	2.04E-01	4.61E-01	4.25E-01
1.26E-01	5.08E-01	7.14E-01	4.12E-01	2.96E-01	5.38E-01	6.68E-01
1.00E-01	6.97E-01	1.21E+00	5.15E-01	4.07E-01	5.78E-01	9.11E-01
7.94E-02	9.47E-01	1.68E+00	6.90E-01	7.50E-01	6.36E-01	1.12E+00
6.31E-02	1.18E+00	2.13E+00	8.60E-01	9.21E-01	7.35E-01	1.48E+00
5.01E-02	1.47E+00	2.70E+00	1.19E+00	1.17E+00	8.06E-01	1.68E+00
3.98E-02	1.76E+00	3.19E+00	1.39E+00	1.52E+00	9.05E-01	2.01E+00
3.16E-02	2.02E+00	3.64E+00	1.49E+00	1.82E+00	1.01E+00	2.53E+00
2.51E-02	2.26E+00	4.01E+00	1.64E+00	2.09E+00	1.19E+00	2.73E+00
1.99E-02	2.51E+00	4.57E+00	1.73E+00	2.39E+00	1.31E+00	2.92E+00
1.58E-02	2.69E+00	4.76E+00	1.78E+00	2.75E+00	1.42E+00	3.10E+00
1.26E-02	2.85E+00	5.17E+00	1.84E+00	2.95E+00	1.50E+00	3.14E+00
1.00E-02	2.97E+00	5.46E+00	1.90E+00	3.00E+00	1.58E+00	3.27E+00
7.94E-03	3.08E+00	5.71E+00	1.95E+00	3.08E+00	1.62E+00	3.39E+00
6.31E-03	3.14E+00	5.86E+00	1.96E+00	3.16E+00	1.67E+00	3.42E+00
5.01E-03	3.22E+00	6.10E+00	2.01E+00	3.17E+00	1.70E+00	3.46E+00
3.98E-03	3.28E+00	6.28E+00	2.02E+00	3.24E+00	1.73E+00	3.50E+00
3.16E-03	3.35E+00	6.50E+00	2.03E+00	3.27E+00	1.77E+00	3.55E+00
2.51E-03	3.40E+00	6.67E+00	2.04E+00	3.27E+00	1.80E+00	3.56E+00
2.00E-03	3.43E+00	6.78E+00	2.05E+00	3.27E+00	1.81E+00	3.56E+00
1.58E-03	3.43E+00	6.80E+00	2.06E+00	3.27E+00	1.81E+00	3.56E+00
1.26E-03	3.45E+00	6.88E+00	2.06E+00	3.28E+00	1.81E+00	3.56E+00
1.00E-03	3.46E+00	6.88E+00	2.06E+00	3.33E+00	1.81E+00	3.57E+00
7.94E-04	3.47E+00	6.88E+00	2.07E+00	3.33E+00	1.82E+00	3.57E+00
6.31E-04	3.47E+00	6.88E+00	2.07E+00	3.33E+00	1.82E+00	3.57E+00
5.01E-04	3.49E+00	6.95E+00	2.07E+00	3.34E+00	1.82E+00	3.57E+00
3.98E-04	3.49E+00	6.95E+00	2.07E+00	3.35E+00	1.82E+00	3.57E+00
3.16E-04	3.49E+00	6.95E+00	2.07E+00	3.35E+00	1.82E+00	3.57E+00
2.51E-04	3.49E+00	6.95E+00	2.07E+00	3.35E+00	1.82E+00	3.57E+00
2.00E-04	3.50E+00	6.96E+00	2.07E+00	3.35E+00	1.88E+00	3.57E+00
OPERATION TIME (MIN)	196444	40924	44640	43200	44640	23040

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TABLE 45. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 2-GAGE  
(3.7-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.58E+00	2.04E-03	0.00E+00	0.00E+00	0.00E+00	8.96E-03	0.00E+00
1.26E+00	7.12E-03	0.00E+00	0.00E+00	0.00E+00	3.14E-02	0.00E+00
1.00E+00	1.83E-02	0.00E+00	8.96E-03	0.00E+00	6.72E-02	8.68E-03
7.94E-01	3.87E-02	0.00E+00	3.58E-02	4.63E-03	1.12E-01	3.47E-02
6.31E-01	6.82E-02	9.76E-03	6.27E-02	9.26E-03	1.84E-01	6.94E-02
5.01E-01	1.02E-01	2.44E-02	1.08E-01	3.24E-02	2.28E-01	1.13E-01
3.98E-01	1.27E-01	3.42E-02	1.57E-01	5.09E-02	2.55E-01	1.30E-01
3.16E-01	1.55E-01	4.88E-02	1.93E-01	5.56E-02	3.18E-01	1.39E-01
2.51E-01	2.09E-01	9.76E-02	2.42E-01	1.06E-01	3.94E-01	1.74E-01
1.99E-01	2.70E-01	1.85E-01	2.96E-01	1.39E-01	4.57E-01	2.52E-01
1.58E-01	3.41E-01	2.88E-01	3.45E-01	1.67E-01	5.20E-01	4.08E-01
1.26E-01	4.98E-01	6.34E-01	4.26E-01	2.73E-01	5.87E-01	6.42E-01
1.00E-01	7.27E-01	1.12E+00	5.96E-01	4.40E-01	6.63E-01	9.46E-01
7.94E-02	9.44E-01	1.53E+00	8.02E-01	8.66E-01	7.26E-01	1.18E+00
6.31E-02	1.20E+00	1.99E+00	9.86E-01	1.02E+00	7.89E-01	1.36E+00
5.01E-02	1.46E+00	2.52E+00	1.16E+00	1.27E+00	8.74E-01	1.65E+00
3.98E-02	1.69E+00	2.89E+00	1.28E+00	1.51E+00	9.90E-01	2.03E+00
3.16E-02	1.93E+00	3.25E+00	1.43E+00	1.83E+00	1.11E+00	2.35E+00
2.51E-02	2.17E+00	3.76E+00	1.55E+00	2.07E+00	1.20E+00	2.58E+00
1.99E-02	2.32E+00	4.16E+00	1.57E+00	2.27E+00	1.27E+00	2.61E+00
1.58E-02	2.50E+00	4.48E+00	1.65E+00	2.54E+00	1.31E+00	2.83E+00
1.26E-02	2.68E+00	5.05E+00	1.68E+00	2.70E+00	1.37E+00	2.90E+00
1.00E-02	2.83E+00	5.43E+00	1.77E+00	2.82E+00	1.42E+00	2.99E+00
7.94E-03	2.90E+00	5.61E+00	1.80E+00	2.91E+00	1.44E+00	3.06E+00
6.31E-03	3.00E+00	5.85E+00	1.81E+00	3.06E+00	1.49E+00	3.06E+00
5.01E-03	3.07E+00	6.05E+00	1.86E+00	3.09E+00	1.53E+00	3.09E+00
3.98E-03	3.15E+00	6.36E+00	1.87E+00	3.14E+00	1.54E+00	3.09E+00
3.16E-03	3.22E+00	6.61E+00	1.88E+00	3.16E+00	1.55E+00	3.16E+00
2.51E-03	3.28E+00	6.85E+00	1.88E+00	3.16E+00	1.56E+00	3.16E+00
2.00E-03	3.30E+00	6.97E+00	1.88E+00	3.16E+00	1.56E+00	3.17E+00
1.58E-03	3.31E+00	6.99E+00	1.89E+00	3.16E+00	1.56E+00	3.17E+00
1.26E-03	3.32E+00	7.06E+00	1.89E+00	3.16E+00	1.56E+00	3.17E+00
1.00E-03	3.34E+00	7.08E+00	1.90E+00	3.21E+00	1.56E+00	3.19E+00
7.94E-04	3.35E+00	7.11E+00	1.90E+00	3.21E+00	1.56E+00	3.19E+00
6.31E-04	3.35E+00	7.11E+00	1.90E+00	3.21E+00	1.56E+00	3.19E+00
5.01E-04	3.36E+00	7.18E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
3.98E-04	3.37E+00	7.20E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
3.16E-04	3.37E+00	7.20E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
2.51E-04	3.37E+00	7.20E+00	1.90E+00	3.22E+00	1.56E+00	3.19E+00
2.00E-04	3.41E+00	7.28E+00	1.90E+00	3.23E+00	1.65E+00	3.19E+00
OPERATION TIME (MIN)	196506	40986	44640	43200	44640	23040

-CORRECTED SEPTEMBER 1973



TABLE 46. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 4-GAGE  
(9.4-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.58E+00	5.05E-03	0.00E+00	8.96E-03	0.00E+00	1.34E-02	0.00E+00
1.26E+00	1.51E-02	0.00E+00	2.24E-02	4.63E-03	4.03E-02	0.00E+00
1.00E+00	3.84E-02	4.70E-03	6.27E-02	9.26E-03	8.96E-02	8.68E-03
7.94E-01	7.67E-02	1.41E-02	1.21E-01	1.39E-02	1.70E-01	4.34E-02
6.31E-01	1.19E-01	4.70E-02	1.66E-01	2.31E-02	2.51E-01	8.68E-02
5.01E-01	1.72E-01	8.93E-02	2.28E-01	5.09E-02	3.23E-01	1.48E-01
3.98E-01	2.32E-01	1.46E-01	3.09E-01	7.87E-02	3.81E-01	2.43E-01
3.16E-01	3.00E-01	2.30E-01	3.81E-01	1.02E-01	4.70E-01	3.12E-01
2.51E-01	3.97E-01	3.48E-01	4.70E-01	1.67E-01	5.78E-01	4.25E-01
1.99E-01	5.00E-01	5.21E-01	5.51E-01	2.27E-01	6.54E-01	5.73E-01
1.58E-01	6.45E-01	7.66E-01	6.68E-01	3.01E-01	7.30E-01	8.59E-01
1.26E-01	8.93E-01	1.34E+00	7.62E-01	4.63E-01	8.33E-01	1.23E+00
1.00E-01	1.18E+00	1.89E+00	9.86E-01	7.36E-01	9.36E-01	1.51E+00
7.94E-02	1.48E+00	2.41E+00	1.21E+00	1.18E+00	1.02E+00	1.77E+00
6.31E-02	1.76E+00	2.97E+00	1.48E+00	1.41E+00	1.13E+00	1.93E+00
5.01E-02	2.07E+00	3.54E+00	1.60E+00	1.84E+00	1.25E+00	2.23E+00
3.98E-02	2.35E+00	3.93E+00	1.81E+00	2.18E+00	1.44E+00	2.57E+00
3.16E-02	2.66E+00	4.43E+00	1.99E+00	2.56E+00	1.59E+00	2.98E+00
2.51E-02	2.91E+00	4.92E+00	2.16E+00	2.87E+00	1.68E+00	3.16E+00
1.99E-02	3.08E+00	5.28E+00	2.21E+00	3.05E+00	1.80E+00	3.26E+00
1.58E-02	3.28E+00	5.71E+00	2.26E+00	3.26E+00	1.89E+00	3.49E+00
1.26E-02	3.49E+00	6.33E+00	2.31E+00	3.47E+00	1.97E+00	3.56E+00
1.00E-02	3.64E+00	6.66E+00	2.40E+00	3.61E+00	2.00E+00	3.72E+00
7.94E-03	3.74E+00	6.89E+00	2.43E+00	3.73E+00	2.04E+00	3.78E+00
6.31E-03	3.83E+00	7.08E+00	2.45E+00	3.87E+00	2.07E+00	3.83E+00
5.01E-03	3.91E+00	7.35E+00	2.51E+00	3.88E+00	2.09E+00	3.87E+00
3.98E-03	3.99E+00	7.63E+00	2.52E+00	3.94E+00	2.11E+00	3.88E+00
3.16E-03	4.04E+00	7.84E+00	2.53E+00	3.94E+00	2.12E+00	3.88E+00
2.51E-03	4.10E+00	8.05E+00	2.53E+00	3.95E+00	2.15E+00	3.88E+00
2.00E-03	4.13E+00	8.21E+00	2.53E+00	3.95E+00	2.15E+00	3.88E+00
1.58E-03	4.15E+00	8.23E+00	2.54E+00	3.98E+00	2.16E+00	3.88E+00
1.26E-03	4.16E+00	8.30E+00	2.54E+00	3.99E+00	2.16E+00	3.88E+00
1.00E-03	4.19E+00	8.33E+00	2.54E+00	4.07E+00	2.18E+00	3.88E+00
7.94E-04	4.20E+00	8.34E+00	2.54E+00	4.07E+00	2.18E+00	3.89E+00
6.31E-04	4.20E+00	8.34E+00	2.54E+00	4.07E+00	2.18E+00	3.89E+00
5.01E-04	4.21E+00	8.39E+00	2.54E+00	4.07E+00	2.18E+00	3.89E+00
3.98E-04	4.21E+00	8.40E+00	2.55E+00	4.08E+00	2.18E+00	3.89E+00
3.16E-04	4.21E+00	8.40E+00	2.55E+00	4.08E+00	2.18E+00	3.89E+00
2.51E-04	4.21E+00	8.40E+00	2.55E+00	4.08E+00	2.18E+00	3.89E+00
2.00E-04	4.27E+00	8.56E+00	2.55E+00	4.09E+00	2.27E+00	3.89E+00
OPERATION TIME (MIN)	198090	42570	44640	43200	44640	23040

-CORRECTED SEPTEMBER 1973



TABLE 47. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 6-GAGE  
(14.9-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM  
APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
1.58E+00	1.01E-02	1.43E-02	8.96E-03	0.00E+00	2.24E-02	0.00E+00
1.26E+00	2.63E-02	2.39E-02	3.14E-02	4.63E-03	5.82E-02	0.00E+00
1.00E+00	6.59E-02	6.21E-02	9.41E-02	1.85E-02	1.16E-01	8.68E-03
7.94E-01	1.28E-01	1.00E-01	1.84E-01	2.78E-02	2.37E-01	4.34E-02
6.31E-01	1.94E-01	1.48E-01	2.64E-01	4.17E-02	3.58E-01	1.04E-01
5.01E-01	2.60E-01	2.01E-01	3.23E-01	7.87E-02	4.66E-01	1.91E-01
3.98E-01	3.34E-01	2.44E-01	4.30E-01	1.16E-01	5.42E-01	3.21E-01
3.16E-01	4.28E-01	3.44E-01	5.15E-01	1.48E-01	6.72E-01	4.60E-01
2.51E-01	5.46E-01	4.83E-01	6.41E-01	2.18E-01	7.89E-01	6.25E-01
1.99E-01	6.77E-01	6.74E-01	7.66E-01	3.01E-01	8.96E-01	7.90E-01
1.58E-01	8.70E-01	9.80E-01	9.18E-01	4.35E-01	9.95E-01	1.15E+00
1.26E-01	1.13E+00	1.47E+00	1.08E+00	6.39E-01	1.10E+00	1.57E+00
1.00E-01	1.44E+00	1.99E+00	1.38E+00	9.72E-01	1.23E+00	1.87E+00
7.94E-02	1.76E+00	2.45E+00	1.64E+00	1.49E+00	1.32E+00	2.11E+00
6.31E-02	2.08E+00	3.05E+00	1.97E+00	1.85E+00	1.43E+00	2.25E+00
5.01E-02	2.40E+00	3.45E+00	2.18E+00	2.36E+00	1.56E+00	2.60E+00
3.98E-02	2.68E+00	3.87E+00	2.34E+00	2.65E+00	1.73E+00	3.10E+00
3.16E-02	2.99E+00	4.32E+00	2.54E+00	3.07E+00	1.89E+00	3.47E+00
2.51E-02	3.24E+00	4.70E+00	2.73E+00	3.43E+00	2.00E+00	3.65E+00
1.99E-02	3.43E+00	5.07E+00	2.79E+00	3.62E+00	2.14E+00	3.86E+00
1.58E-02	3.64E+00	5.46E+00	2.90E+00	3.88E+00	2.26E+00	4.02E+00
1.26E-02	3.88E+00	6.13E+00	2.97E+00	4.08E+00	2.37E+00	4.09E+00
1.00E-02	4.03E+00	6.55E+00	3.04E+00	4.17E+00	2.45E+00	4.21E+00
7.94E-03	4.11E+00	6.71E+00	3.06E+00	4.26E+00	2.50E+00	4.25E+00
6.31E-03	4.19E+00	6.94E+00	3.07E+00	4.35E+00	2.53E+00	4.31E+00
5.01E-03	4.26E+00	7.16E+00	3.11E+00	4.36E+00	2.55E+00	4.35E+00
3.98E-03	4.33E+00	7.41E+00	3.12E+00	4.41E+00	2.57E+00	4.36E+00
3.16E-03	4.38E+00	7.57E+00	3.14E+00	4.43E+00	2.59E+00	4.36E+00
2.51E-03	4.42E+00	7.73E+00	3.15E+00	4.44E+00	2.61E+00	4.36E+00
2.00E-03	4.45E+00	7.84E+00	3.15E+00	4.44E+00	2.62E+00	4.37E+00
1.58E-03	4.46E+00	7.86E+00	3.16E+00	4.45E+00	2.62E+00	4.37E+00
1.26E-03	4.47E+00	7.93E+00	3.16E+00	4.45E+00	2.63E+00	4.37E+00
1.00E-03	4.53E+00	8.08E+00	3.17E+00	4.53E+00	2.64E+00	4.37E+00
7.94E-04	4.53E+00	8.08E+00	3.17E+00	4.53E+00	2.64E+00	4.37E+00
6.31E-04	4.53E+00	8.08E+00	3.17E+00	4.53E+00	2.64E+00	4.37E+00
5.01E-04	4.53E+00	8.08E+00	3.17E+00	4.54E+00	2.64E+00	4.37E+00
3.98E-04	4.54E+00	8.08E+00	3.17E+00	4.55E+00	2.65E+00	4.38E+00
3.16E-04	4.54E+00	8.08E+00	3.17E+00	4.55E+00	2.65E+00	4.38E+00
2.51E-04	4.54E+00	8.08E+00	3.17E+00	4.55E+00	2.65E+00	4.38E+00
2.00E-04	4.57E+00	8.13E+00	3.18E+00	4.56E+00	2.73E+00	4.38E+00
OPERATION TIME (MIN)	197372	41852	44640	43200	44640	23040

-CORRECTED SEPTEMBER 1973



TABLE 49. FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR THE 10-GAGE (26.9-MILE) EAST-WEST LINE OF GAGES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD					
	ALL DATA	APR	MAY	JUN	JUL	AUG
2.51E+00	1.02E-03	4.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.99E+00	4.06E-03	4.82E-03	4.48E-03	0.00E+00	8.96E-03	0.00E+00
1.58E+00	2.54E-02	2.41E-02	2.24E-02	1.85E-02	4.93E-02	0.00E+00
1.26E+00	6.19E-02	6.27E-02	7.17E-02	3.70E-02	1.08E-01	0.00E+00
1.00E+00	1.25E-01	1.01E-01	1.79E-01	1.06E-01	1.70E-01	8.68E-03
7.94E-01	2.09E-01	1.59E-01	2.91E-01	1.67E-01	2.96E-01	5.21E-02
6.31E-01	3.10E-01	2.55E-01	3.94E-01	2.18E-01	4.35E-01	1.74E-01
5.01E-01	4.12E-01	3.47E-01	4.70E-01	3.29E-01	5.56E-01	2.95E-01
3.98E-01	5.34E-01	4.24E-01	6.27E-01	4.12E-01	6.54E-01	5.47E-01
3.16E-01	6.65E-01	5.98E-01	7.48E-01	4.58E-01	7.89E-01	7.73E-01
2.51E-01	8.37E-01	8.34E-01	9.32E-01	5.56E-01	9.14E-01	1.03E+00
1.99E-01	1.05E+00	1.20E+00	1.14E+00	7.08E-01	1.03E+00	1.28E+00
1.58E-01	1.32E+00	1.66E+00	1.36E+00	9.21E-01	1.15E+00	1.70E+00
1.26E-01	1.64E+00	2.20E+00	1.58E+00	1.23E+00	1.28E+00	2.20E+00
1.00E-01	1.98E+00	2.69E+00	1.92E+00	1.67E+00	1.43E+00	2.47E+00
7.94E-02	2.36E+00	3.27E+00	2.22E+00	2.25E+00	1.55E+00	2.73E+00
6.31E-02	2.71E+00	3.79E+00	2.60E+00	2.62E+00	1.70E+00	3.09E+00
5.01E-02	3.10E+00	4.22E+00	2.88E+00	3.24E+00	1.89E+00	3.60E+00
3.98E-02	3.46E+00	4.65E+00	3.13E+00	3.66E+00	2.11E+00	4.19E+00
3.16E-02	3.82E+00	5.10E+00	3.38E+00	4.10E+00	2.31E+00	4.74E+00
2.51E-02	4.15E+00	5.64E+00	3.62E+00	4.48E+00	2.45E+00	5.15E+00
1.99E-02	4.41E+00	6.14E+00	3.71E+00	4.68E+00	2.70E+00	5.48E+00
1.58E-02	4.66E+00	6.64E+00	3.85E+00	4.91E+00	2.85E+00	5.74E+00
1.26E-02	4.89E+00	7.33E+00	3.95E+00	5.04E+00	2.94E+00	5.81E+00
1.00E-02	5.06E+00	7.86E+00	4.00E+00	5.10E+00	3.06E+00	5.91E+00
7.94E-03	5.18E+00	8.04E+00	4.05E+00	5.25E+00	3.14E+00	6.02E+00
6.31E-03	5.28E+00	8.22E+00	4.11E+00	5.38E+00	3.19E+00	6.12E+00
5.01E-03	5.37E+00	8.48E+00	4.16E+00	5.44E+00	3.21E+00	6.20E+00
3.98E-03	5.47E+00	8.72E+00	4.17E+00	5.51E+00	3.25E+00	6.32E+00
3.16E-03	5.53E+00	8.88E+00	4.24E+00	5.52E+00	3.30E+00	6.35E+00
2.51E-03	5.58E+00	9.01E+00	4.27E+00	5.56E+00	3.31E+00	6.35E+00
2.00E-03	5.66E+00	9.33E+00	4.28E+00	5.59E+00	3.33E+00	6.37E+00
1.58E-03	5.67E+00	9.34E+00	4.29E+00	5.61E+00	3.33E+00	6.37E+00
1.26E-03	5.69E+00	9.42E+00	4.29E+00	5.62E+00	3.33E+00	6.38E+00
1.00E-03	5.73E+00	9.47E+00	4.30E+00	5.69E+00	3.35E+00	6.44E+00
7.94E-04	5.74E+00	9.48E+00	4.30E+00	5.71E+00	3.36E+00	6.45E+00
6.31E-04	5.74E+00	9.48E+00	4.30E+00	5.71E+00	3.36E+00	6.45E+00
5.01E-04	5.74E+00	9.48E+00	4.31E+00	5.72E+00	3.36E+00	6.48E+00
3.98E-04	5.75E+00	9.48E+00	4.31E+00	5.73E+00	3.36E+00	6.48E+00
3.16E-04	5.75E+00	9.48E+00	4.31E+00	5.73E+00	3.36E+00	6.48E+00
2.51E-04	5.75E+00	9.48E+00	4.31E+00	5.73E+00	3.36E+00	6.48E+00
2.00E-04	5.78E+00	9.53E+00	4.31E+00	5.73E+00	3.45E+00	6.48E+00
OPERATION TIME (MIN)	197010	41490	44640	43200	44640	23040

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TABLE 52. A SUMMARY OF THE FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR VARIOUS LENGTHS OF NORTH-SOUTH LINES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD							
	14-GAGE	12-GAGE	10-GAGE	8-GAGE	6-GAGE	4-GAGE	2-GAGE	1-GAGE
3.16E+00	3.05E-03	3.04E-03	3.04E-03	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.51E+00	8.13E-03	7.10E-03	7.10E-03	4.05E-03	1.01E-03	0.00E+00	0.00E+00	0.00E+00
1.99E+00	2.54E-02	1.93E-02	1.82E-02	1.32E-02	6.08E-03	2.02E-03	0.00E+00	0.00E+00
1.58E+00	5.79E-02	4.57E-02	4.06E-02	2.84E-02	1.82E-02	8.07E-03	1.02E-03	0.00E+00
1.26E+00	1.20E-01	9.84E-02	8.82E-02	6.79E-02	3.95E-02	2.02E-02	7.13E-03	3.03E-03
1.00E+00	2.09E-01	1.69E-01	1.48E-01	1.23E-01	7.80E-02	4.64E-02	2.14E-02	1.01E-02
7.94E-01	3.35E-01	2.65E-01	2.29E-01	1.93E-01	1.34E-01	7.87E-02	3.26E-02	2.02E-02
6.31E-01	4.71E-01	3.83E-01	3.32E-01	2.71E-01	1.92E-01	1.24E-01	6.21E-02	4.04E-02
5.01E-01	6.12E-01	5.07E-01	4.39E-01	3.71E-01	2.60E-01	1.79E-01	9.37E-02	6.57E-02
3.98E-01	7.56E-01	6.34E-01	5.49E-01	4.65E-01	3.34E-01	2.24E-01	1.25E-01	8.69E-02
3.16E-01	9.46E-01	7.85E-01	6.90E-01	5.86E-01	4.14E-01	2.80E-01	1.51E-01	1.10E-01
2.51E-01	1.14E+00	9.63E-01	8.46E-01	7.12E-01	5.15E-01	3.47E-01	1.92E-01	1.33E-01
1.99E-01	1.42E+00	1.22E+00	1.07E+00	8.97E-01	6.44E-01	4.46E-01	2.56E-01	1.74E-01
1.58E-01	1.75E+00	1.54E+00	1.36E+00	1.14E+00	8.65E-01	5.91E-01	3.36E-01	2.29E-01
1.26E-01	2.18E+00	1.92E+00	1.71E+00	1.45E+00	1.13E+00	8.18E-01	5.08E-01	3.56E-01
1.00E-01	2.66E+00	2.38E+00	2.14E+00	1.84E+00	1.47E+00	1.09E+00	6.97E-01	5.13E-01
7.94E-02	3.13E+00	2.81E+00	2.53E+00	2.21E+00	1.78E+00	1.38E+00	9.47E-01	7.37E-01
6.31E-02	3.62E+00	3.31E+00	3.02E+00	2.64E+00	2.18E+00	1.72E+00	1.18E+00	9.20E-01
5.01E-02	4.09E+00	3.74E+00	3.42E+00	3.03E+00	2.57E+00	2.04E+00	1.47E+00	1.15E+00
3.98E-02	4.53E+00	4.16E+00	3.80E+00	3.41E+00	2.92E+00	2.37E+00	1.76E+00	1.38E+00
3.16E-02	4.94E+00	4.54E+00	4.15E+00	3.73E+00	3.24E+00	2.66E+00	2.02E+00	1.58E+00
2.51E-02	5.33E+00	4.87E+00	4.44E+00	4.06E+00	3.54E+00	2.96E+00	2.26E+00	1.82E+00
1.99E-02	5.65E+00	5.19E+00	4.75E+00	4.35E+00	3.81E+00	3.25E+00	2.51E+00	2.04E+00
1.58E-02	5.98E+00	5.49E+00	5.02E+00	4.62E+00	4.03E+00	3.47E+00	2.69E+00	2.22E+00
1.26E-02	6.27E+00	5.74E+00	5.24E+00	4.79E+00	4.25E+00	3.69E+00	2.85E+00	2.42E+00
1.00E-02	6.51E+00	5.95E+00	5.42E+00	4.97E+00	4.43E+00	3.85E+00	2.97E+00	2.56E+00
7.94E-03	6.66E+00	6.12E+00	5.56E+00	5.11E+00	4.56E+00	3.98E+00	3.08E+00	2.67E+00
6.31E-03	6.78E+00	6.23E+00	5.67E+00	5.21E+00	4.66E+00	4.04E+00	3.14E+00	2.80E+00
5.01E-03	6.90E+00	6.35E+00	5.77E+00	5.31E+00	4.75E+00	4.16E+00	3.22E+00	2.87E+00
3.98E-03	7.01E+00	6.48E+00	5.89E+00	5.42E+00	4.85E+00	4.24E+00	3.28E+00	2.96E+00
3.16E-03	7.09E+00	6.59E+00	6.01E+00	5.53E+00	4.94E+00	4.33E+00	3.35E+00	3.04E+00
2.51E-03	7.20E+00	6.69E+00	6.13E+00	5.64E+00	5.06E+00	4.46E+00	3.40E+00	3.09E+00
2.00E-03	7.26E+00	6.76E+00	6.16E+00	5.71E+00	5.15E+00	4.52E+00	3.43E+00	3.12E+00
1.58E-03	7.29E+00	6.78E+00	6.18E+00	5.72E+00	5.16E+00	4.52E+00	3.43E+00	3.13E+00
1.26E-03	7.31E+00	6.80E+00	6.20E+00	5.74E+00	5.18E+00	4.55E+00	3.45E+00	3.14E+00
1.00E-03	7.37E+00	6.86E+00	6.23E+00	5.77E+00	5.21E+00	4.57E+00	3.46E+00	3.16E+00
7.94E-04	7.38E+00	6.86E+00	6.24E+00	5.78E+00	5.22E+00	4.58E+00	3.47E+00	3.16E+00
6.31E-04	7.38E+00	6.86E+00	6.24E+00	5.78E+00	5.22E+00	4.58E+00	3.47E+00	3.16E+00
5.01E-04	7.38E+00	6.86E+00	6.24E+00	5.79E+00	5.23E+00	4.59E+00	3.49E+00	3.19E+00
3.98E-04	7.40E+00	6.89E+00	6.28E+00	5.81E+00	5.25E+00	4.60E+00	3.49E+00	3.19E+00
3.16E-04	7.40E+00	6.89E+00	6.28E+00	5.81E+00	5.25E+00	4.60E+00	3.49E+00	3.19E+00
2.51E-04	7.40E+00	6.89E+00	6.28E+00	5.81E+00	5.25E+00	4.60E+00	3.49E+00	3.19E+00
2.00E-04	7.41E+00	6.89E+00	6.28E+00	5.82E+00	5.25E+00	4.61E+00	3.50E+00	3.21E+00
OPERATION TIME (MIN)	196760	197118	197284	197292	197492	198244	196444	197830

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TABLE 53. A SUMMARY OF THE FREQUENCIES OF 2-MINUTE MAXIMUM PRECIPITATION RATES FOR VARIOUS LENGTHS OF EAST-WEST LINES IN CENTRAL ILLINOIS, FROM APRIL 1 THROUGH AUGUST 16, 1970

THRESHOLD RATE (MM/MIN)	PERCENT OF TIME THAT RATE IS GREATER THAN THRESHOLD							
	14-GAGE	12-GAGE	10-GAGE	8-GAGE	6-GAGE	4-GAGE	2-GAGE	1-GAGE
2.51E+00	4.06E-03	1.02E-03	1.02E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.99E+00	9.14E-03	5.08E-03	4.06E-03	1.01E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1.58E+00	4.37E-02	2.94E-02	2.54E-02	1.42E-02	1.01E-02	5.05E-03	2.04E-03	0.00E+00
1.26E+00	1.04E-01	7.51E-02	6.19E-02	4.77E-02	2.63E-02	1.51E-02	7.12E-03	3.03E-03
1.00E+00	1.92E-01	1.48E-01	1.25E-01	1.01E-01	6.59E-02	3.84E-02	1.83E-02	1.01E-02
7.94E-01	3.15E-01	2.50E-01	2.09E-01	1.77E-01	1.28E-01	7.67E-02	3.87E-02	2.02E-02
6.31E-01	4.63E-01	3.72E-01	3.10E-01	2.62E-01	1.94E-01	1.19E-01	6.82E-02	4.04E-02
5.01E-01	6.26E-01	5.09E-01	4.12E-01	3.48E-01	2.60E-01	1.72E-01	1.02E-01	6.57E-02
3.98E-01	7.85E-01	6.61E-01	5.34E-01	4.49E-01	3.34E-01	2.32E-01	1.27E-01	8.69E-02
3.16E-01	9.65E-01	8.25E-01	6.65E-01	5.55E-01	4.28E-01	3.00E-01	1.55E-01	1.10E-01
2.51E-01	1.17E+00	1.01E+00	8.37E-01	7.01E-01	5.46E-01	3.97E-01	2.09E-01	1.33E-01
1.99E-01	1.41E+00	1.23E+00	1.05E+00	8.72E-01	6.77E-01	5.00E-01	2.70E-01	1.74E-01
1.58E-01	1.73E+00	1.53E+00	1.32E+00	1.12E+00	8.70E-01	6.45E-01	3.41E-01	2.29E-01
1.26E-01	2.10E+00	1.87E+00	1.64E+00	1.40E+00	1.13E+00	8.93E-01	4.98E-01	3.56E-01
1.00E-01	2.49E+00	2.25E+00	1.98E+00	1.72E+00	1.44E+00	1.18E+00	7.27E-01	5.13E-01
7.94E-02	2.94E+00	2.66E+00	2.36E+00	2.08E+00	1.76E+00	1.48E+00	9.94E-01	7.37E-01
6.31E-02	3.42E+00	3.08E+00	2.71E+00	2.41E+00	2.08E+00	1.76E+00	1.20E+00	9.20E-01
5.01E-02	3.89E+00	3.54E+00	3.10E+00	2.74E+00	2.40E+00	2.07E+00	1.46E+00	1.15E+00
3.98E-02	4.31E+00	3.91E+00	3.46E+00	3.04E+00	2.68E+00	2.35E+00	1.69E+00	1.38E+00
3.16E-02	4.76E+00	4.32E+00	3.82E+00	3.37E+00	2.99E+00	2.66E+00	1.93F+00	1.58E+00
2.51E-02	5.14E+00	4.68E+00	4.15E+00	3.65E+00	3.24E+00	2.91E+00	2.17E+00	1.82E+00
1.99E-02	5.44E+00	4.98E+00	4.41E+00	3.89E+00	3.43E+00	3.08E+00	2.32E+00	2.04E+00
1.58E-02	5.72E+00	5.25E+00	4.66E+00	4.11E+00	3.64E+00	3.28E+00	2.50E+00	2.22E+00
1.26E-02	5.96E+00	5.48E+00	4.89E+00	4.36E+00	3.88E+00	3.49E+00	2.68E+00	2.42E+00
1.00E-02	6.15E+00	5.68E+00	5.06E+00	4.53E+00	4.03E+00	3.64E+00	2.83E+00	2.56E+00
7.94E-03	6.29E+00	5.81E+00	5.18E+00	4.61E+00	4.11E+00	3.74E+00	2.90E+00	2.67E+00
6.31E-03	6.39E+00	5.92E+00	5.28E+00	4.69E+00	4.19E+00	3.83E+00	3.00E+00	2.80E+00
5.01E-03	6.50E+00	6.00E+00	5.37E+00	4.79E+00	4.26E+00	3.91E+00	3.07E+00	2.87E+00
3.98E-03	6.60E+00	6.11E+00	5.47E+00	4.87E+00	4.33E+00	3.99E+00	3.15E+00	2.96E+00
3.16E-03	6.67E+00	6.18E+00	5.53E+00	4.92E+00	4.38E+00	4.04E+00	3.22E+00	3.04E+00
2.51E-03	6.73E+00	6.23E+00	5.58E+00	4.97E+00	4.42E+00	4.10E+00	3.28E+00	3.09E+00
2.00E-03	6.81E+00	6.31E+00	5.66E+00	5.04E+00	4.45E+00	4.13E+00	3.30E+00	3.12E+00
1.58E-03	6.82E+00	6.32E+00	5.67E+00	5.05E+00	4.46E+00	4.15E+00	3.31E+00	3.13E+00
1.26E-03	6.84E+00	6.35E+00	5.69E+00	5.07E+00	4.47E+00	4.16E+00	3.32E+00	3.14E+00
1.00E-03	6.87E+00	6.38E+00	5.73E+00	5.13E+00	4.53E+00	4.19E+00	3.34E+00	3.16E+00
7.94E-04	6.87E+00	6.38E+00	5.74E+00	5.13E+00	4.53E+00	4.20E+00	3.35E+00	3.16E+00
6.31E-04	6.87E+00	6.38E+00	5.74E+00	5.13E+00	4.53E+00	4.20E+00	3.35E+00	3.16E+00
5.01E-04	6.87E+00	6.38E+00	5.74E+00	5.14E+00	4.53E+00	4.21E+00	3.36E+00	3.19E+00
3.98E-04	6.88E+00	6.39E+00	5.75E+00	5.14E+00	4.54E+00	4.21E+00	3.37E+00	3.19E+00
3.16E-04	6.88E+00	6.39E+00	5.75E+00	5.14E+00	4.54E+00	4.21E+00	3.37E+00	3.19E+00
2.51E-04	6.88E+00	6.39E+00	5.75E+00	5.14E+00	4.54E+00	4.21E+00	3.37E+00	3.19E+00
2.00E-04	6.91E+00	6.42E+00	5.78E+00	5.17E+00	4.57E+00	4.27E+00	3.41E+00	3.21E+00
OPERATION TIME (MIN)	196906	196946	197010	197146	197372	198090	196506	197830

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